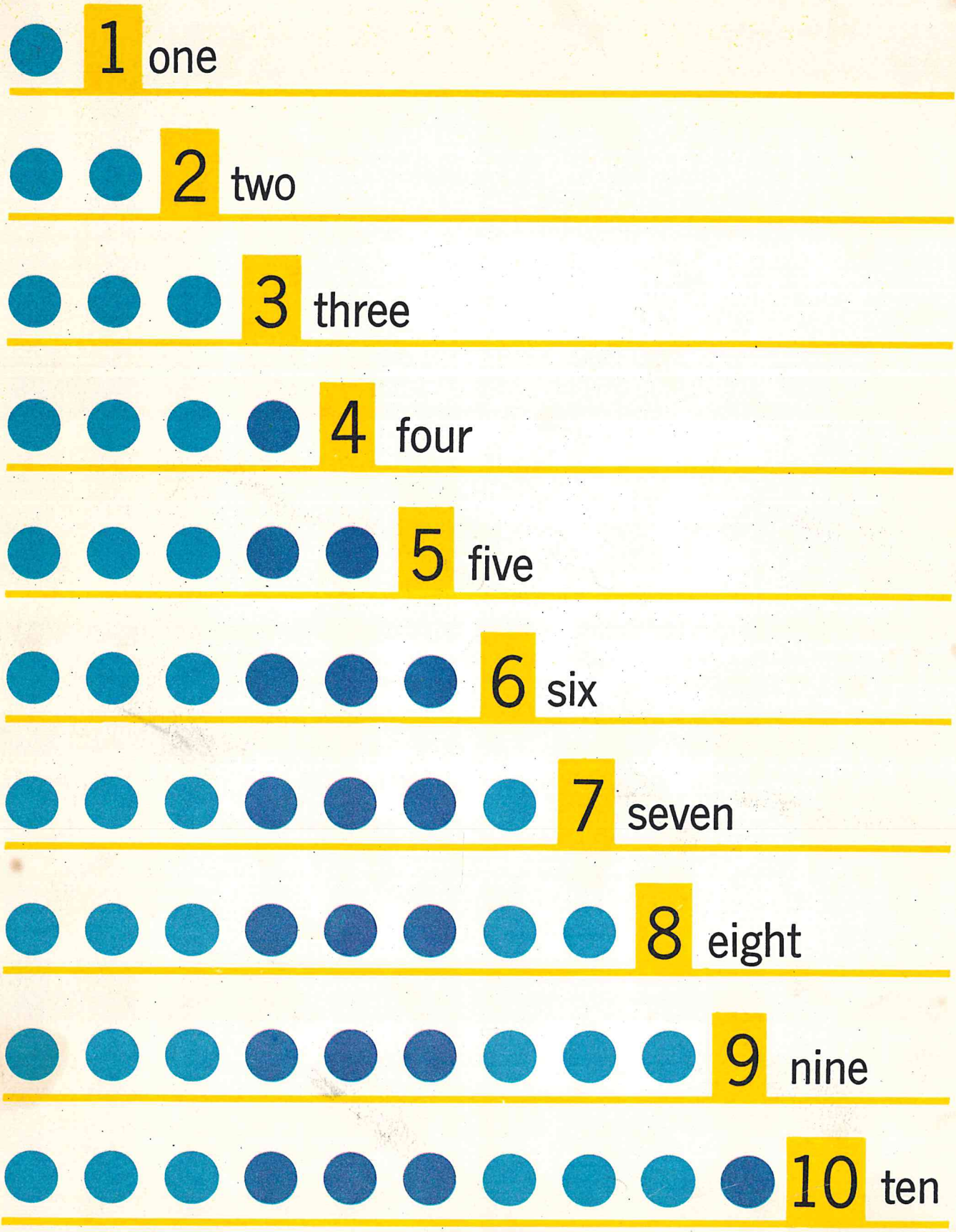
One by One

GROWTH IN ARITHMETIC: GRADE 1



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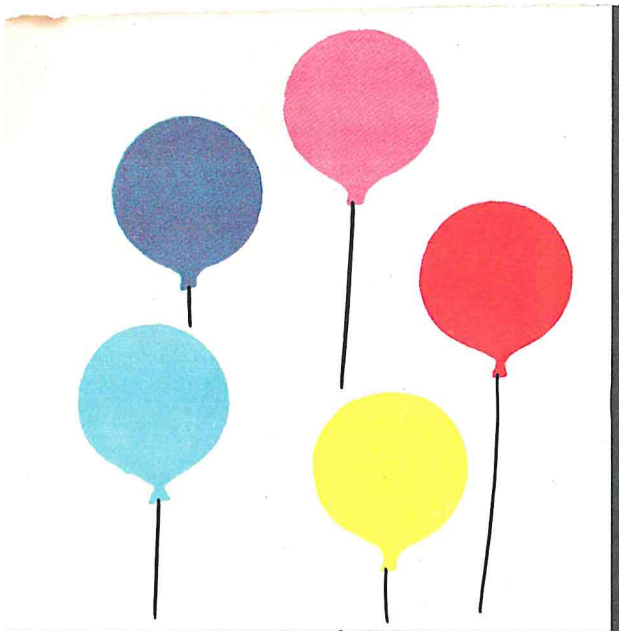

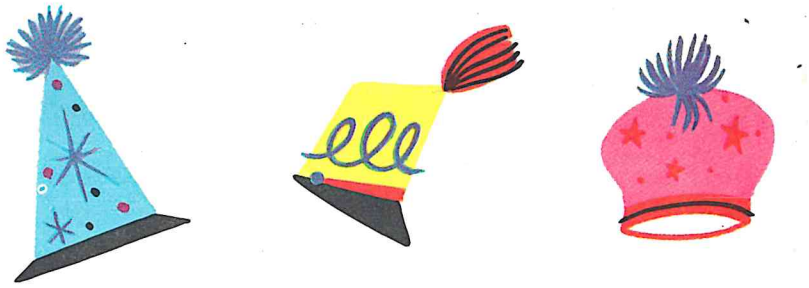

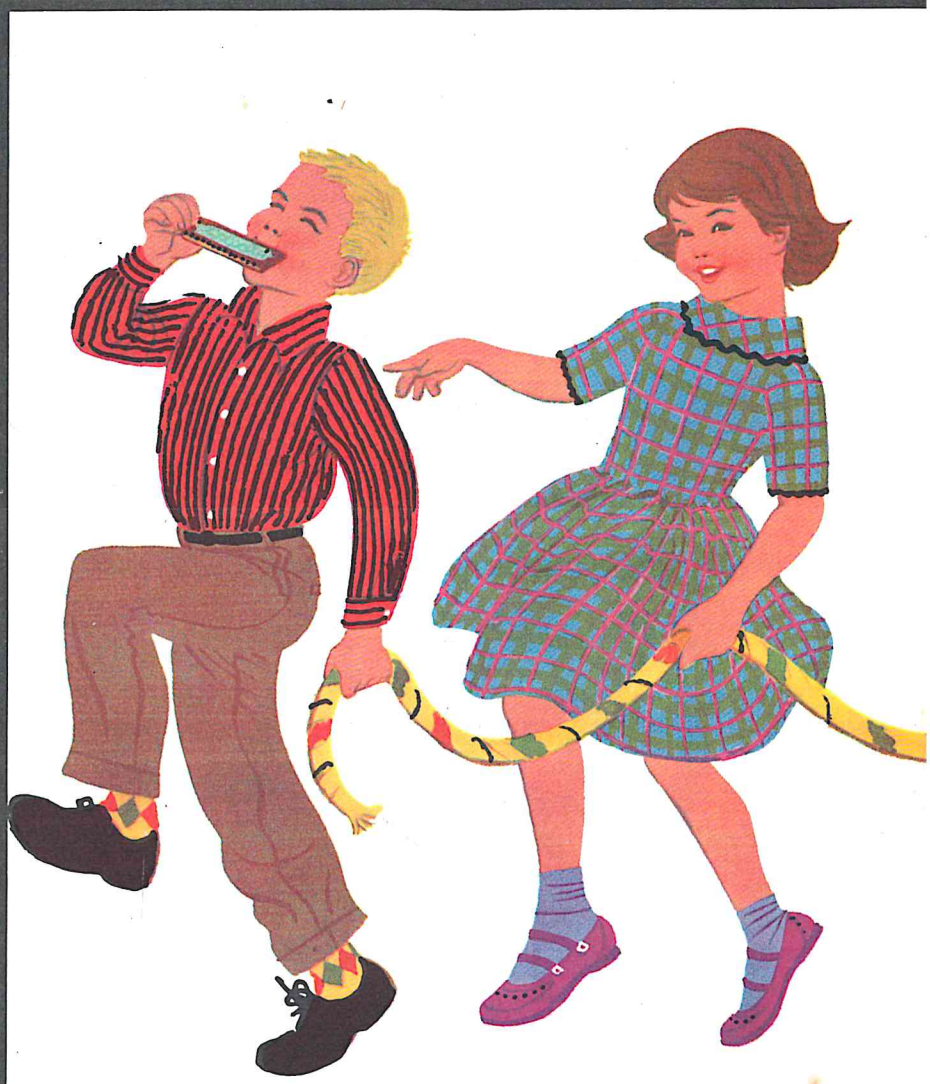

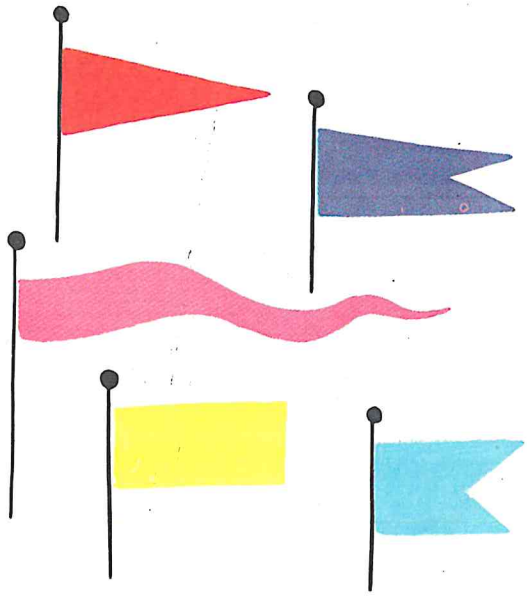

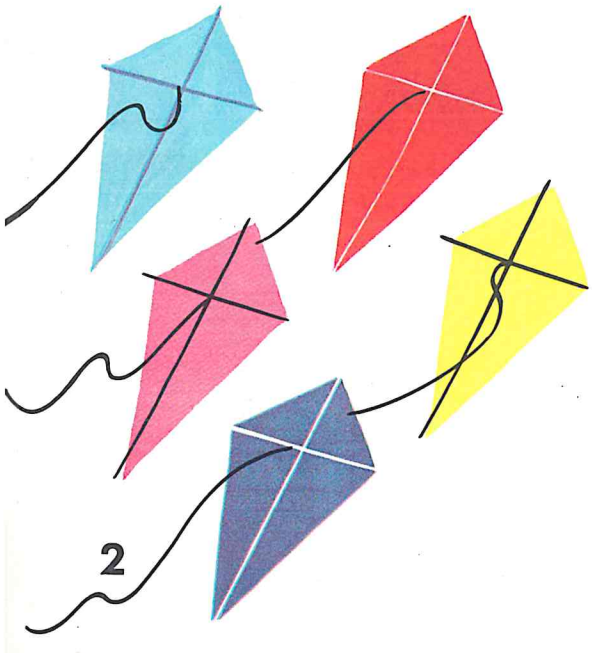

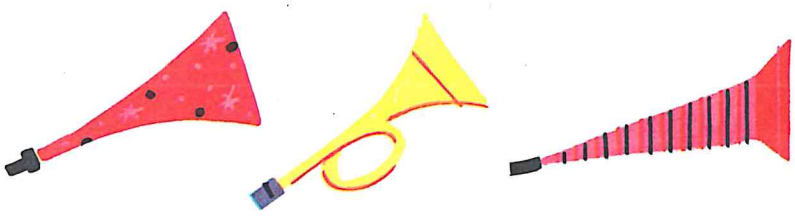

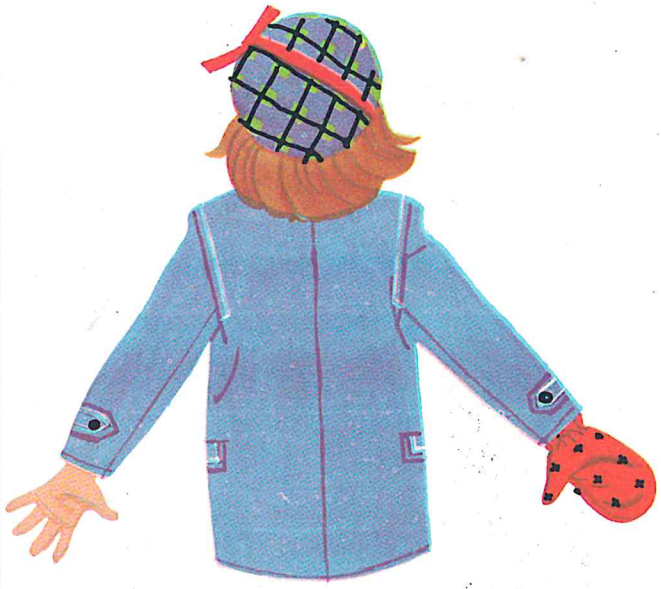

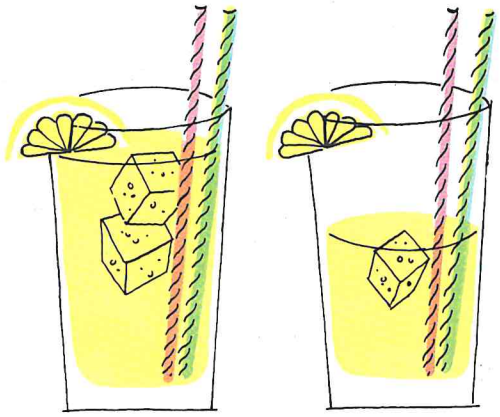

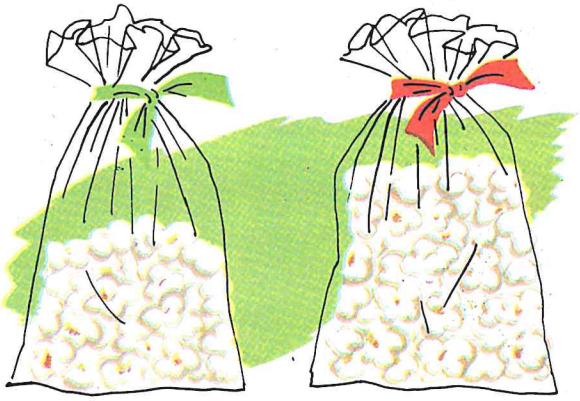

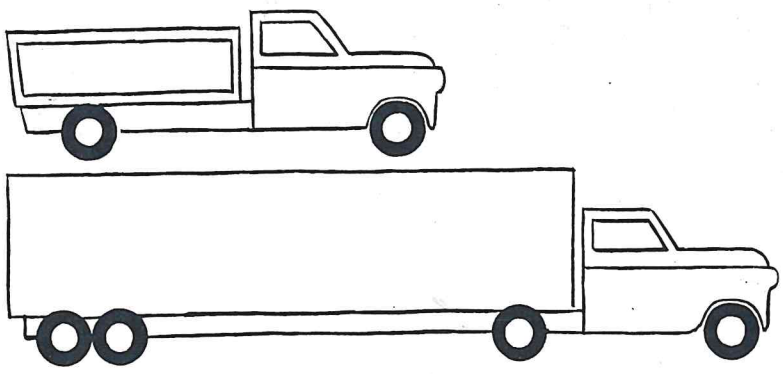

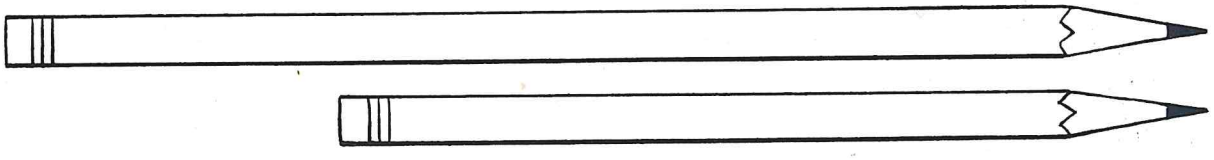

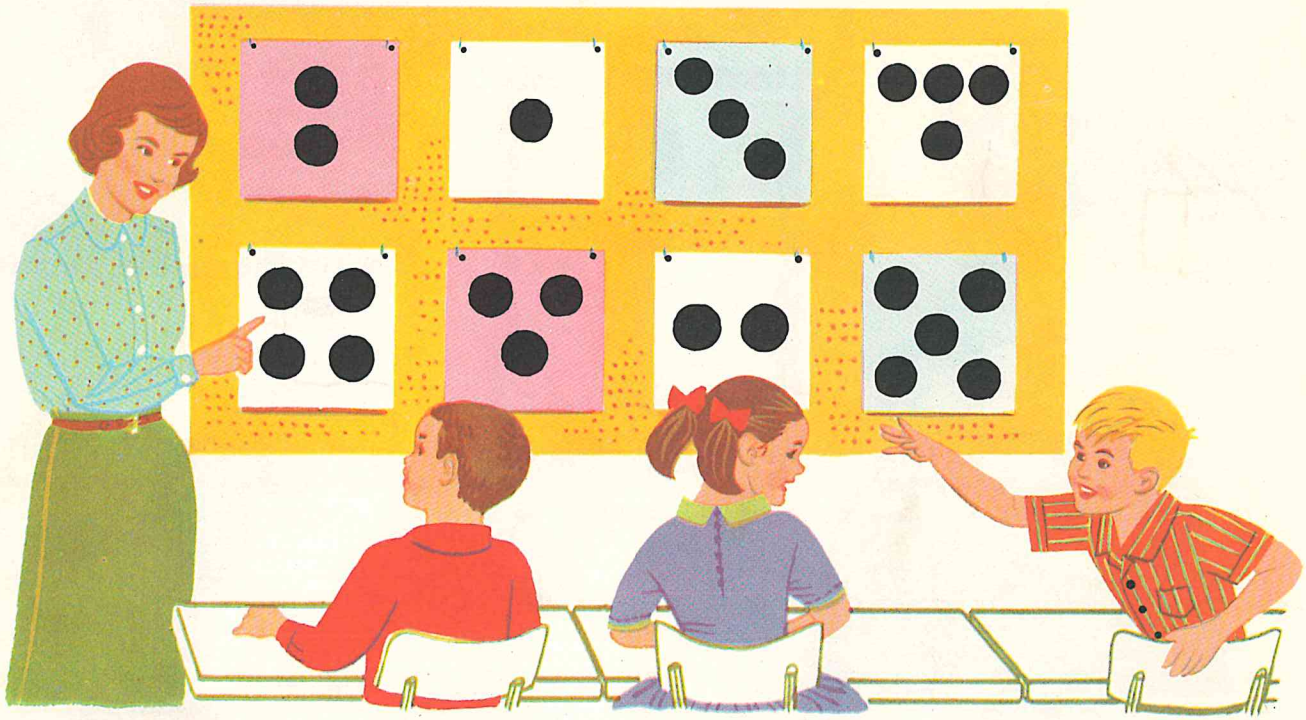

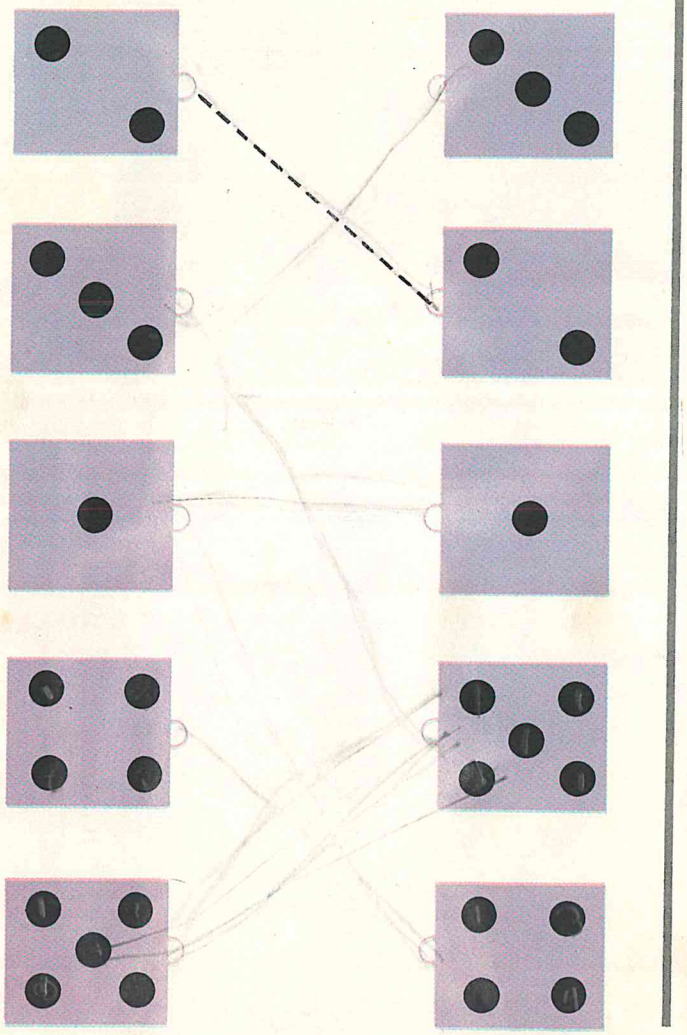

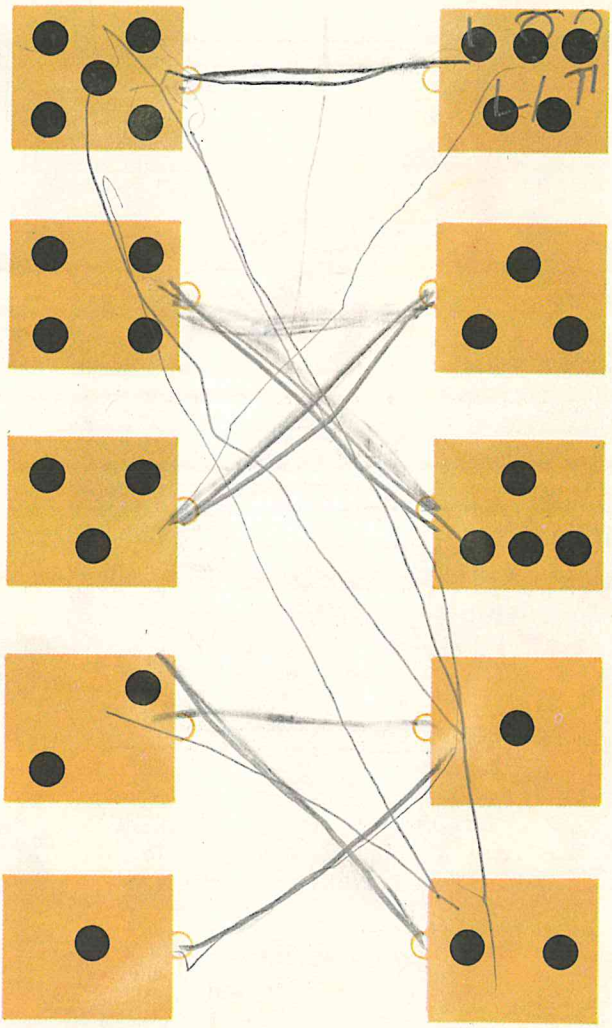

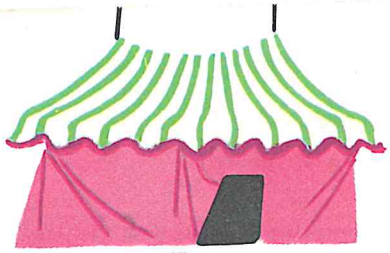

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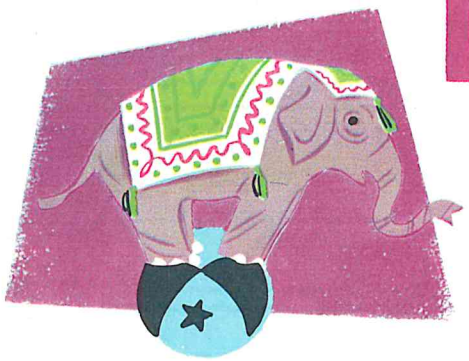

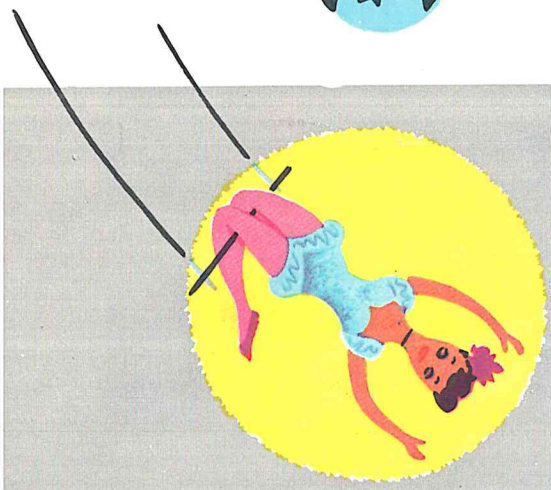

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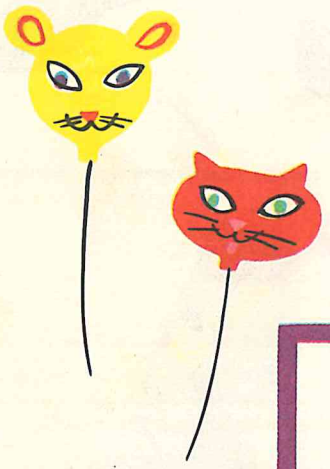

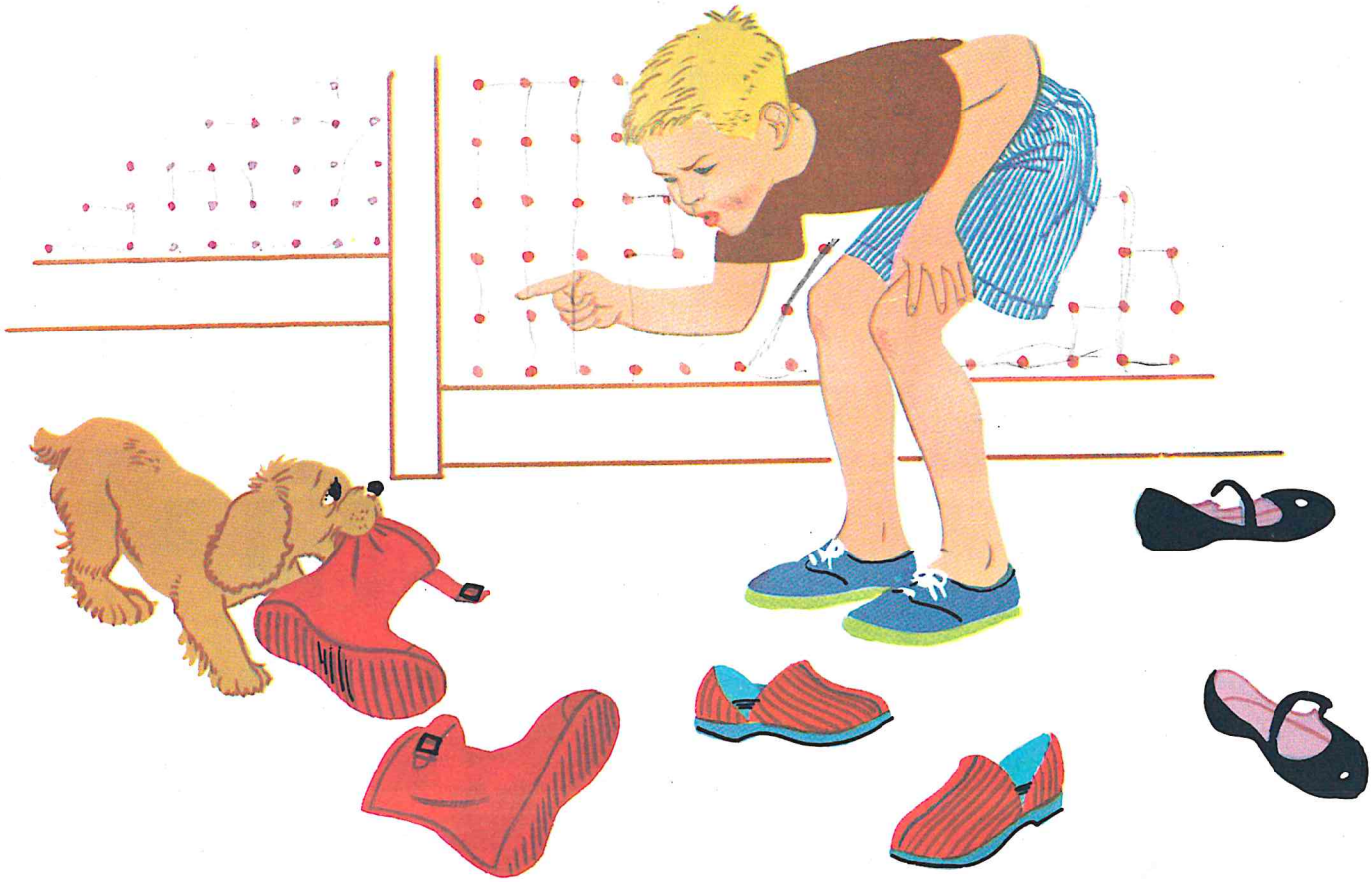

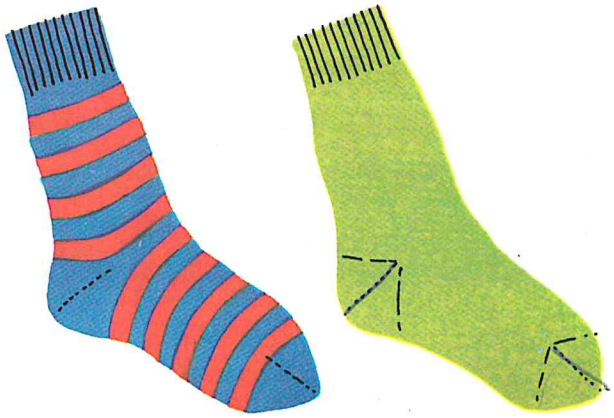

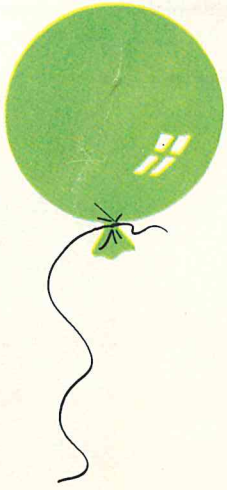

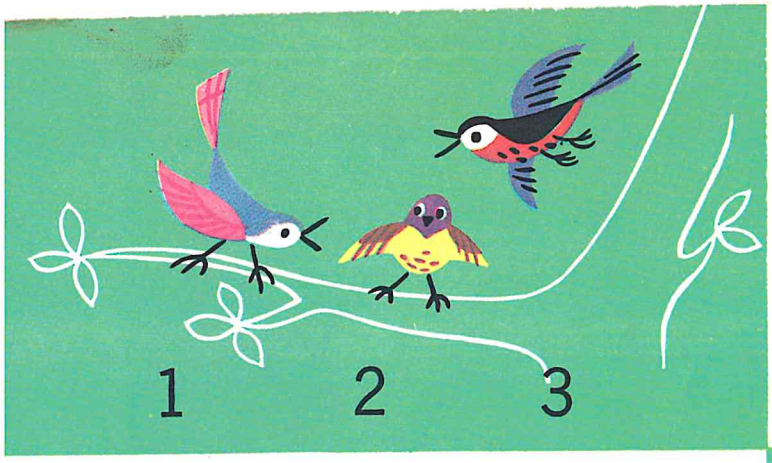

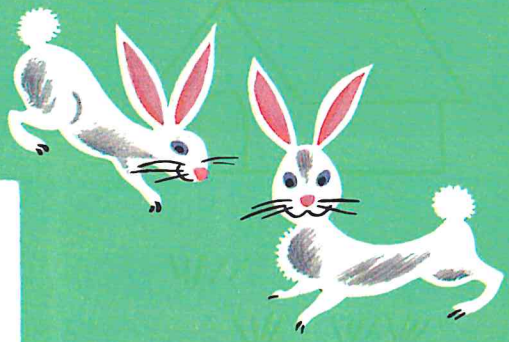

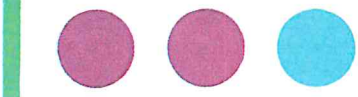

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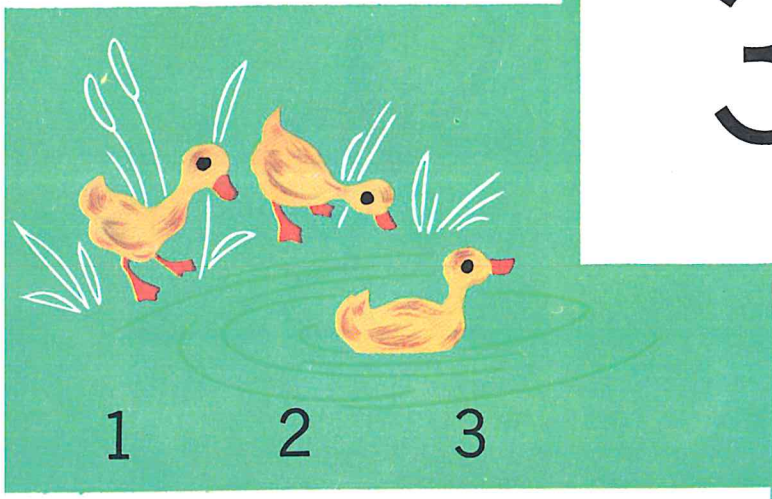

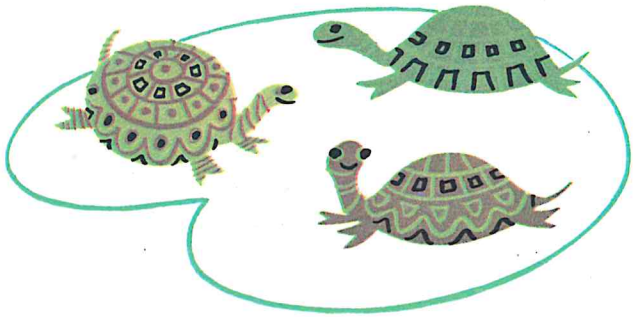

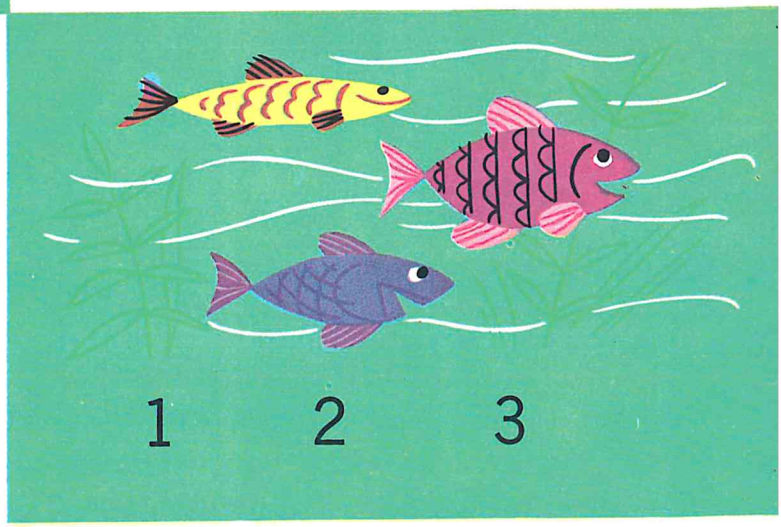

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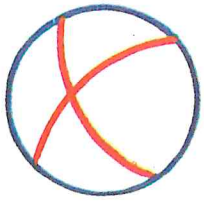

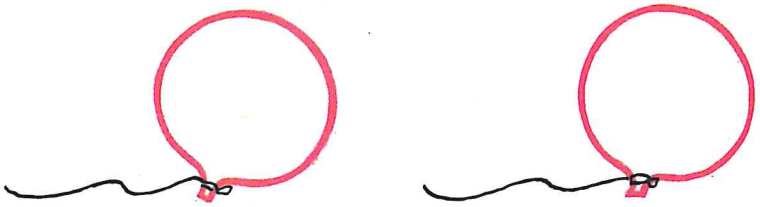

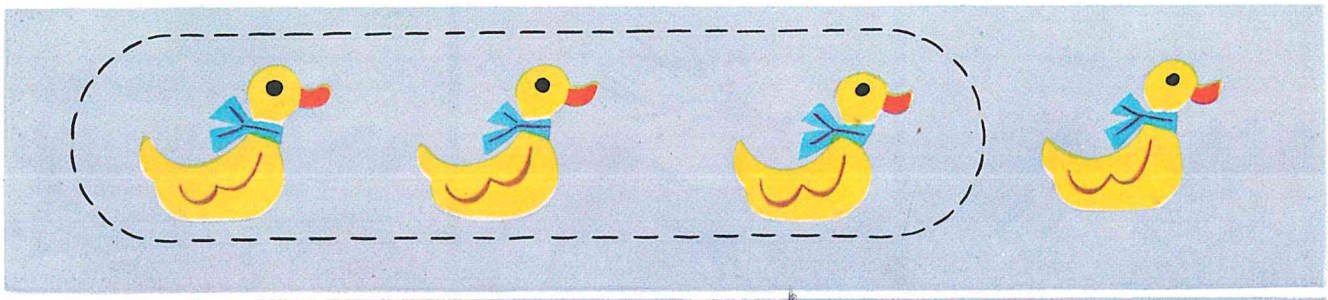

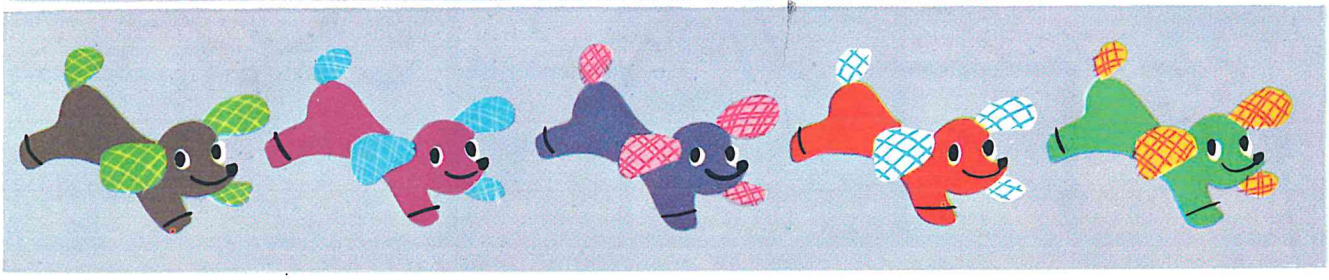

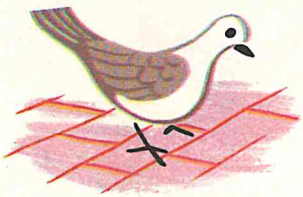

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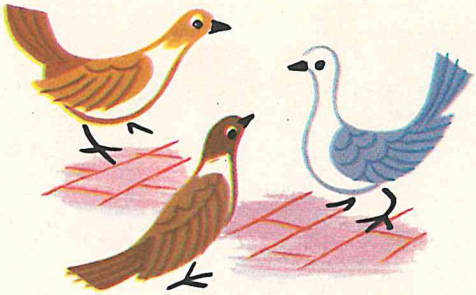
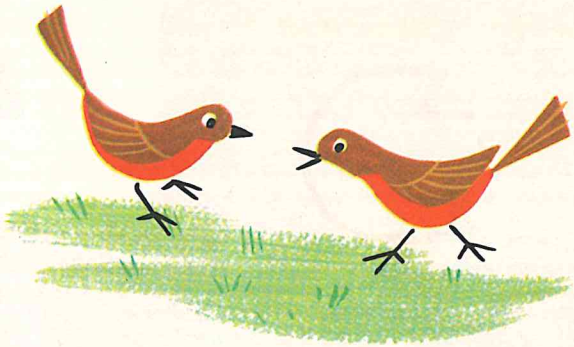


3 three

one two three

one two three

one two three



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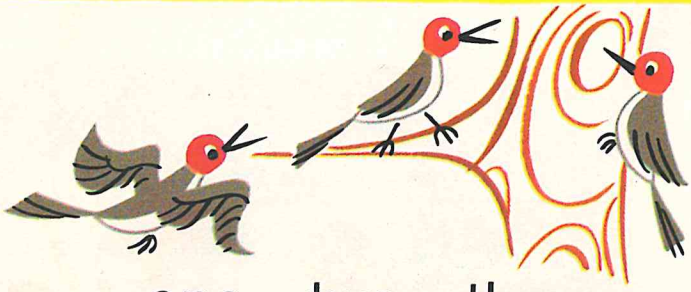

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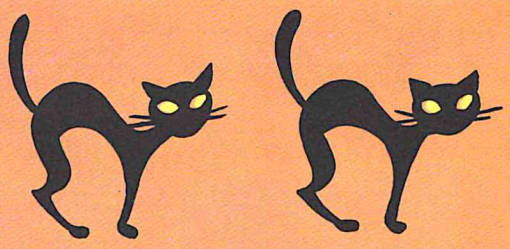

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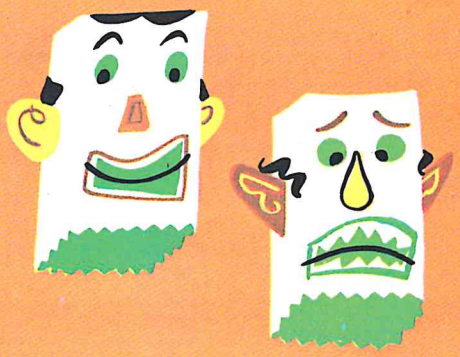

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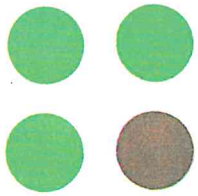

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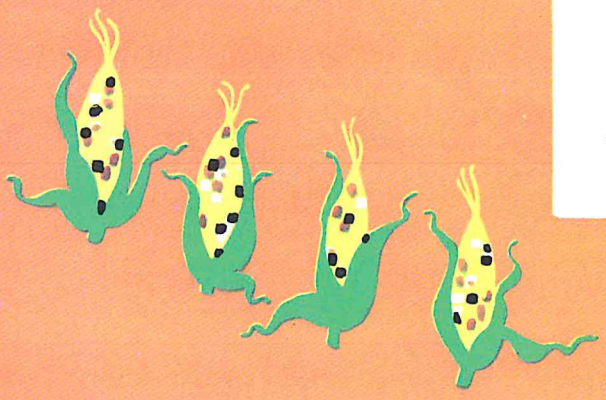

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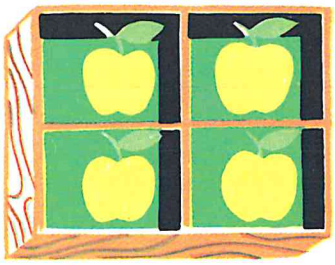

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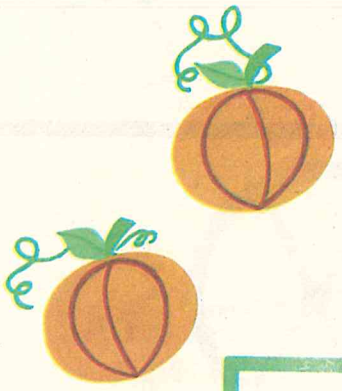

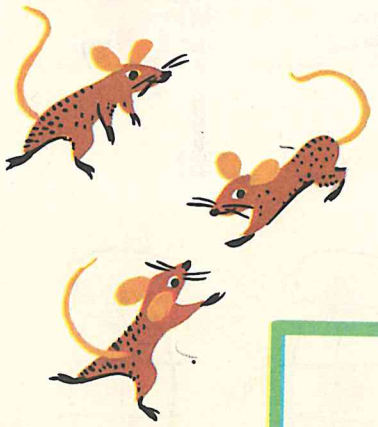

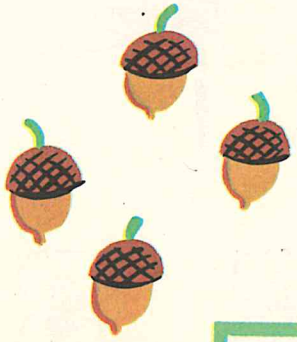

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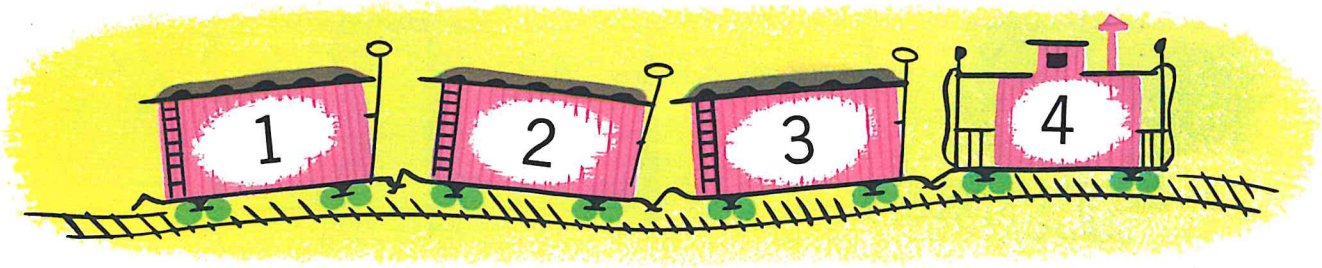

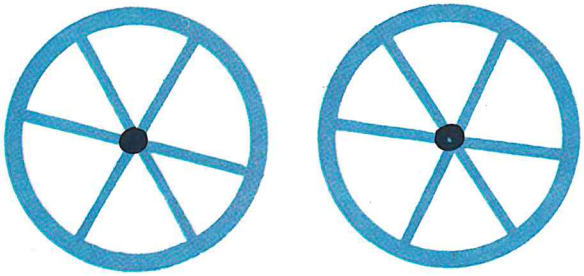

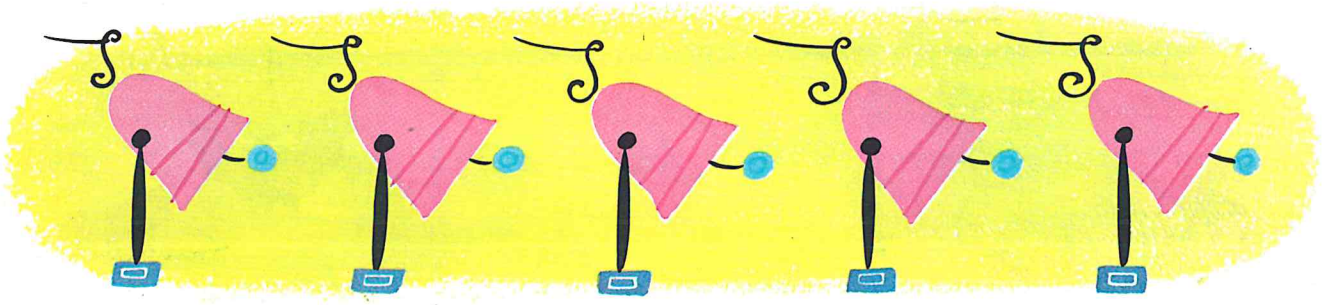

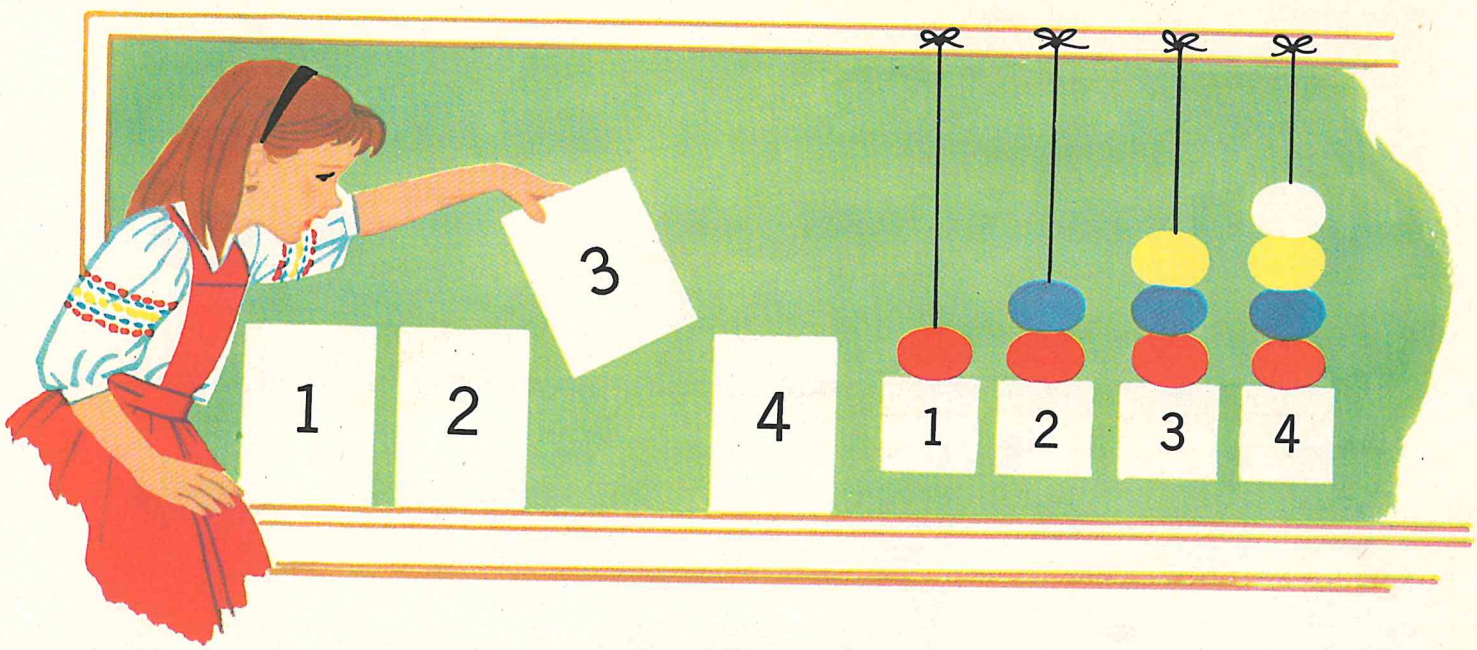

1	2	___
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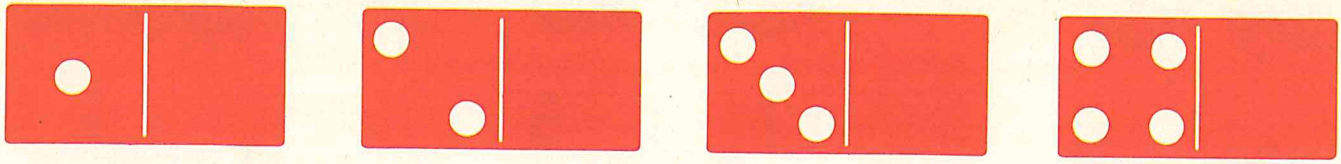

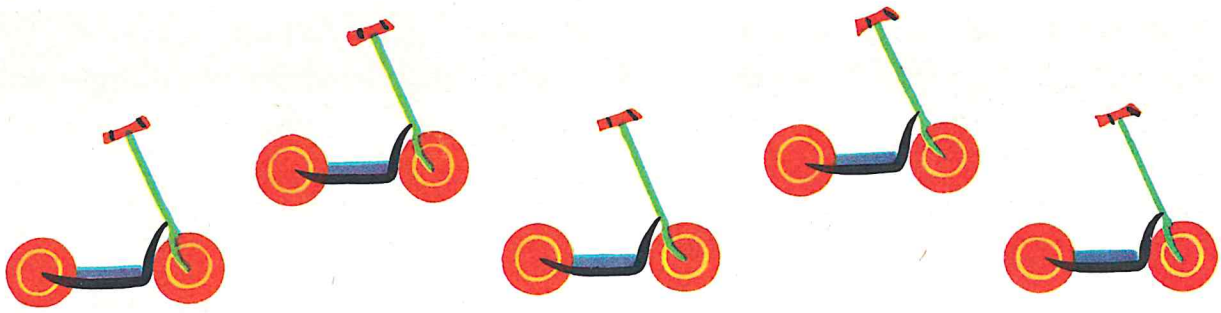

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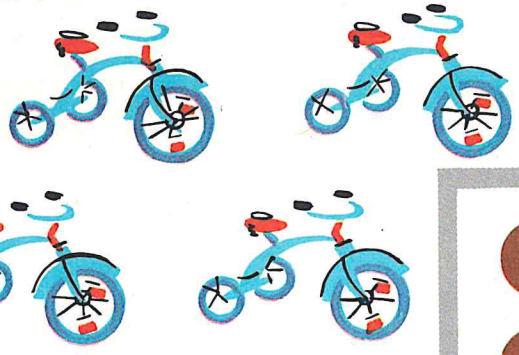

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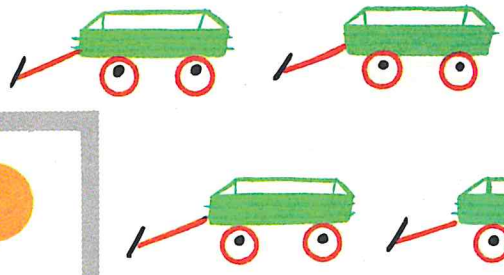

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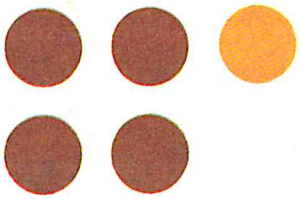

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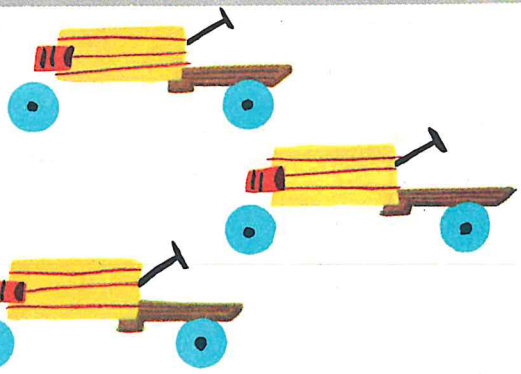

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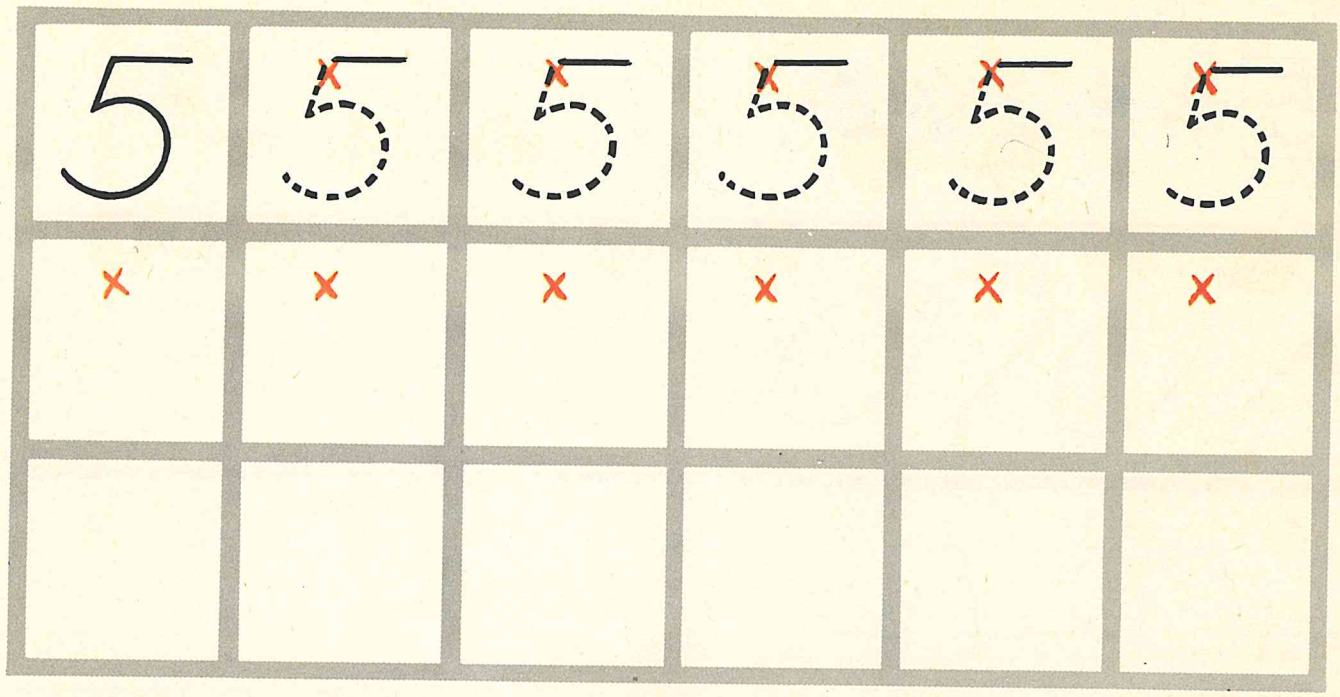
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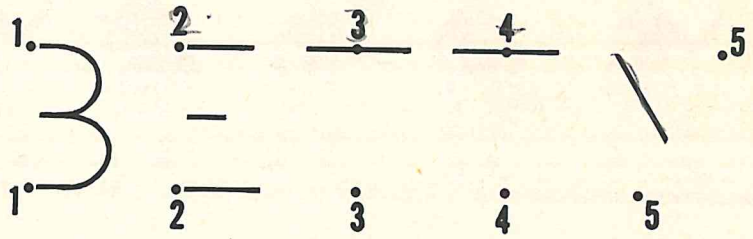
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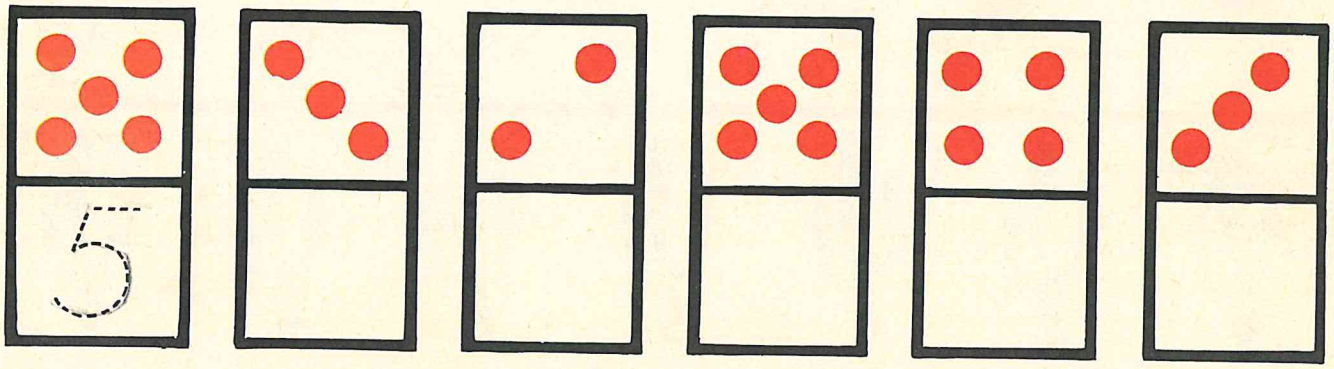
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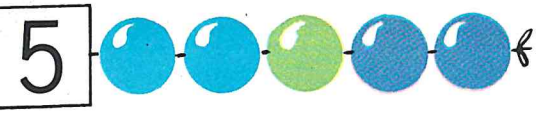
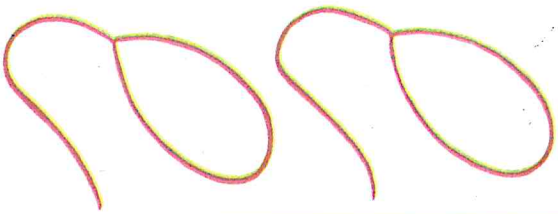
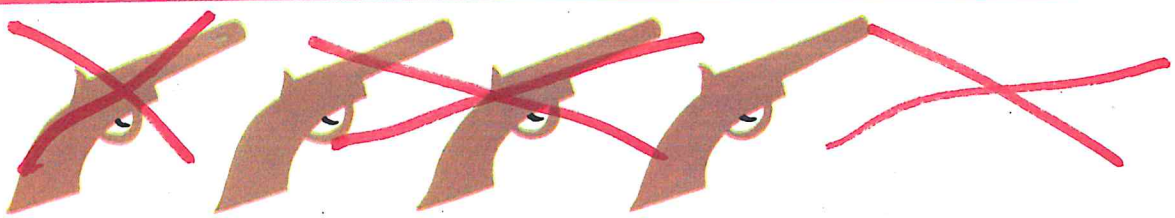
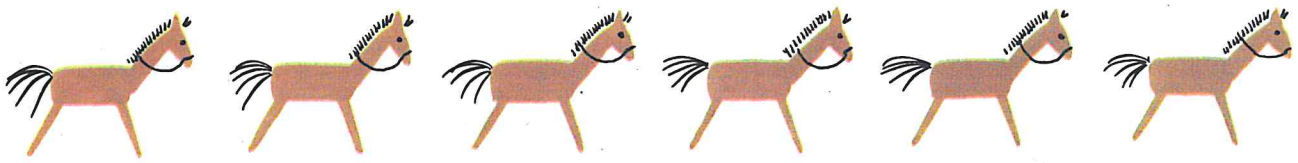
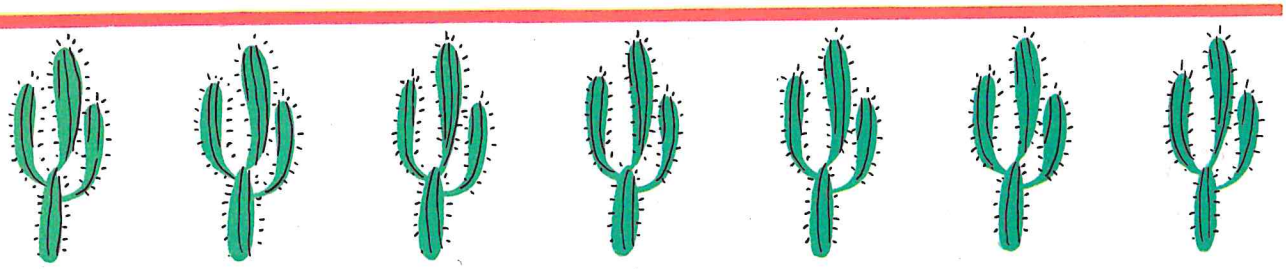










1 cent

5 cents

5¢

5¢ 1¢ 3¢

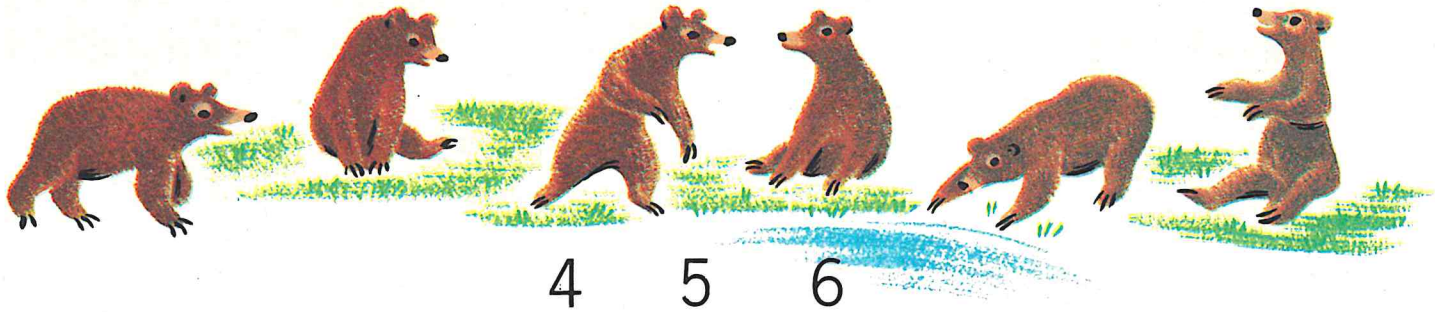
2¢ 3¢ 4¢

1¢ 3¢ 2¢

3¢ 5¢ 4¢

2¢ 5¢ 1¢

5¢ 4¢ 3¢



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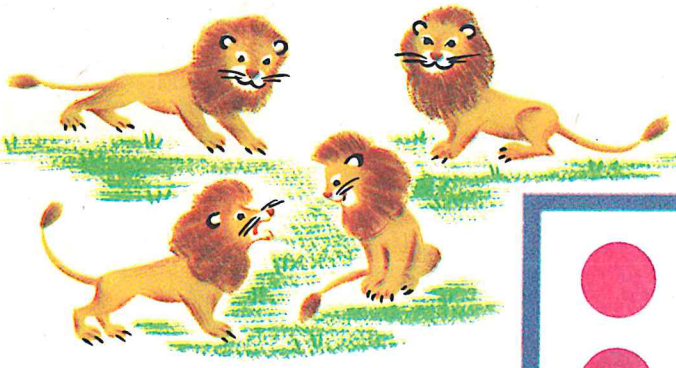

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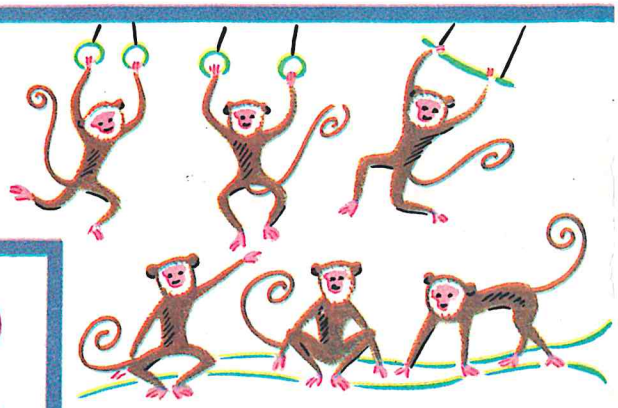

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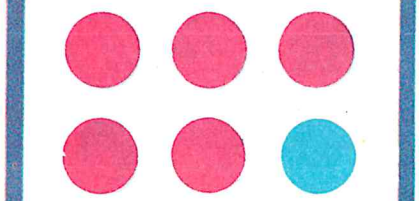

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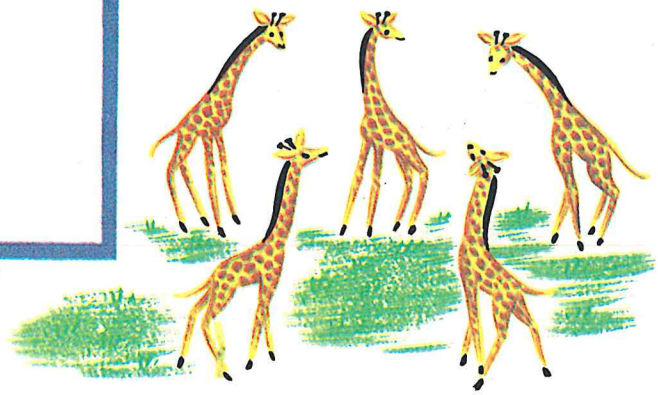

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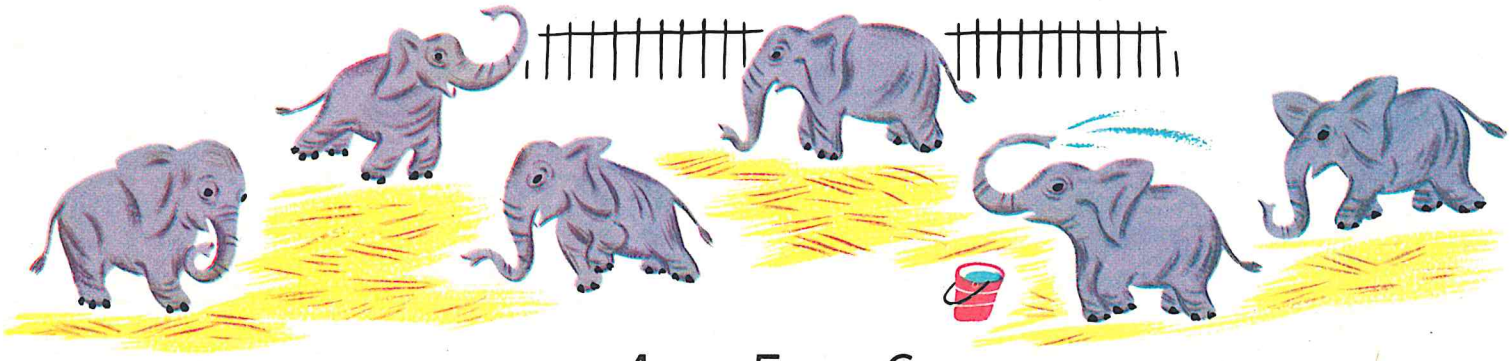

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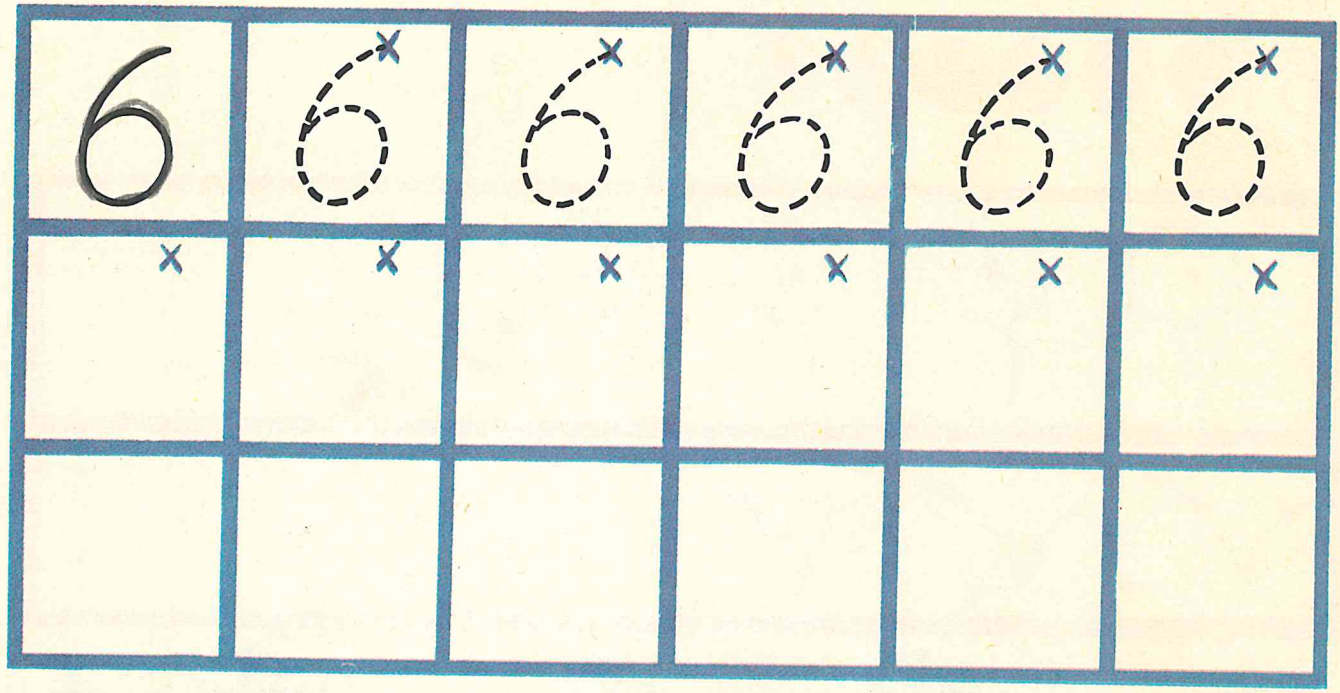
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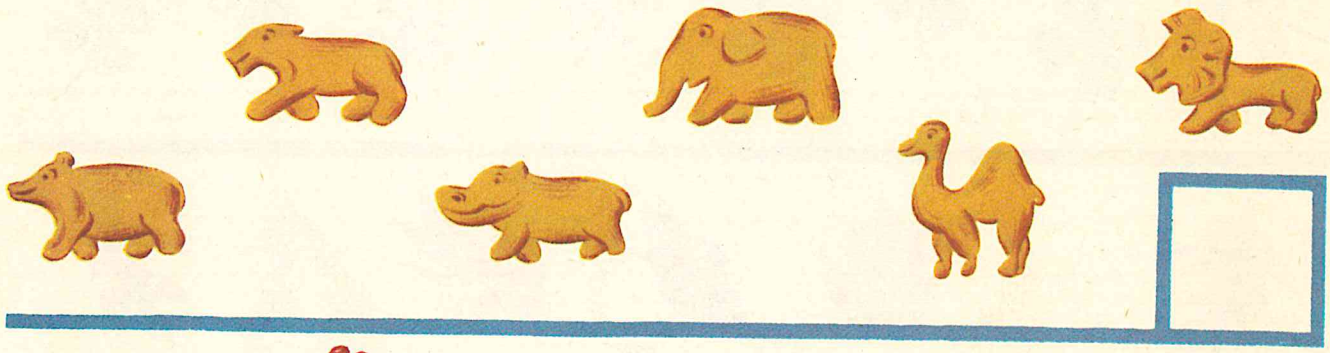

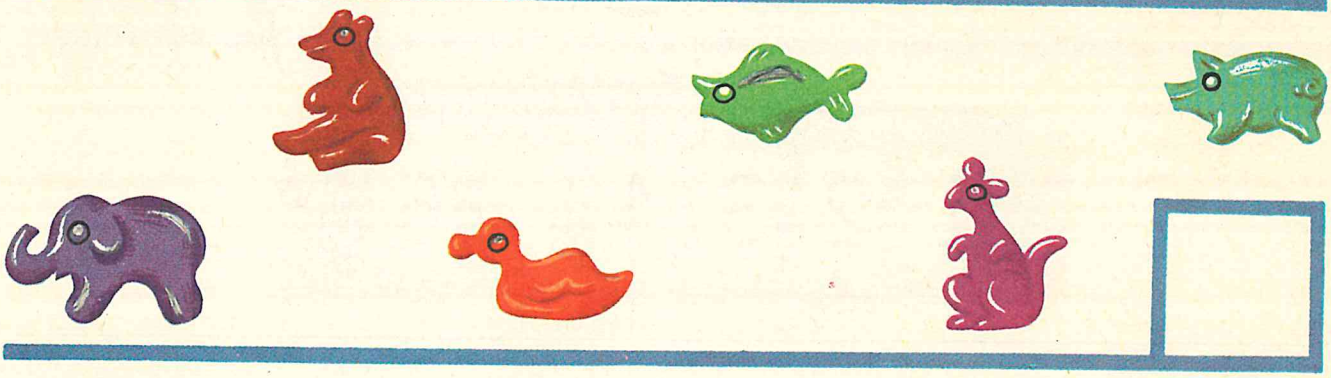

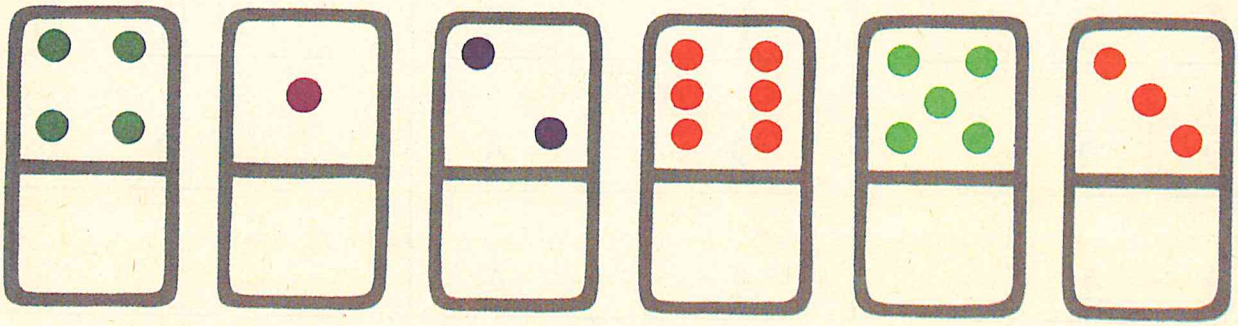

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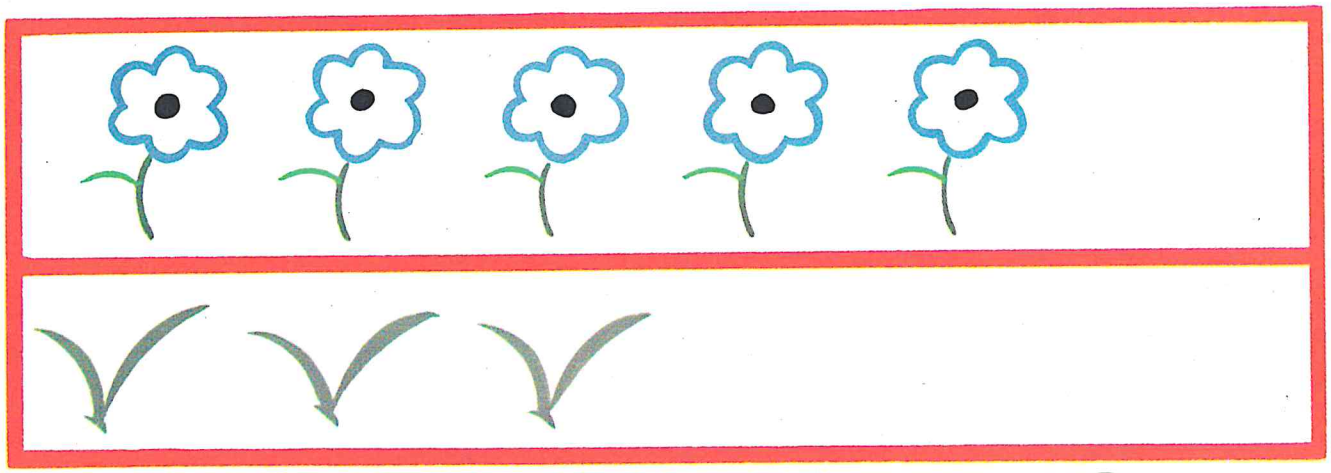

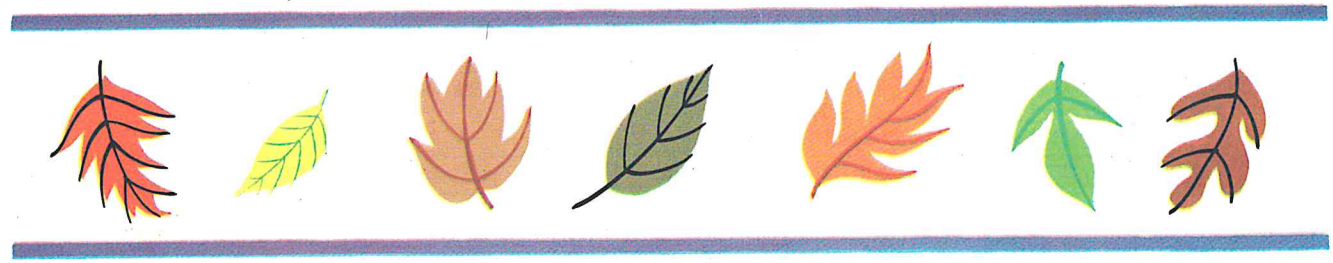

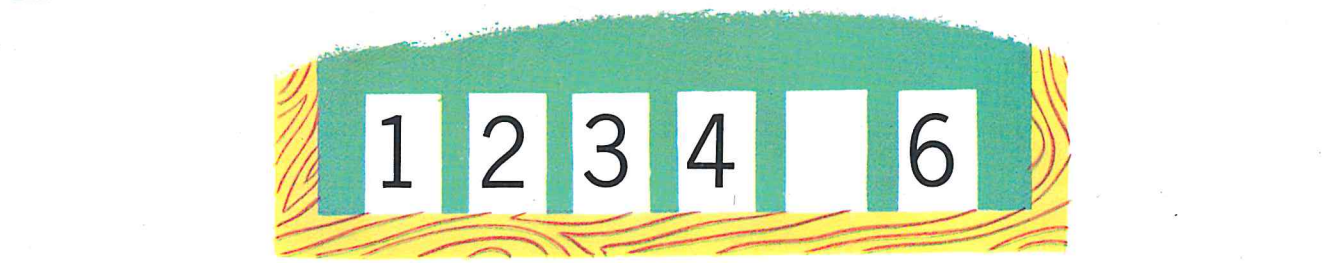

4 5 ___	1 ___ 3	___ 5 6
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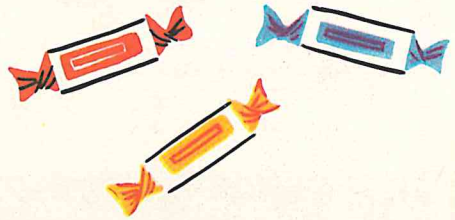
3 4 ___	4 ___ 6	___ 2 3

CANDY
1¢
ONE CENT
UNITED STATES OF AMERICA



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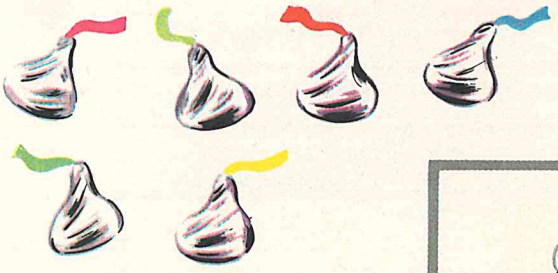

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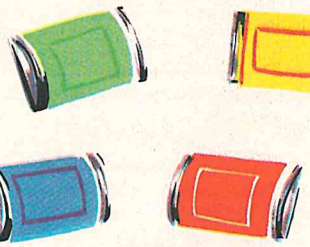

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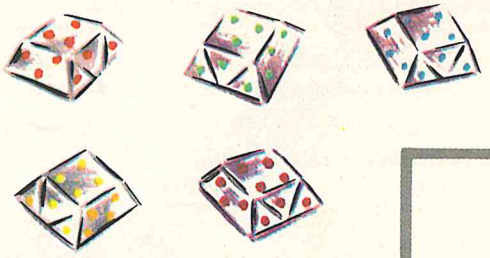

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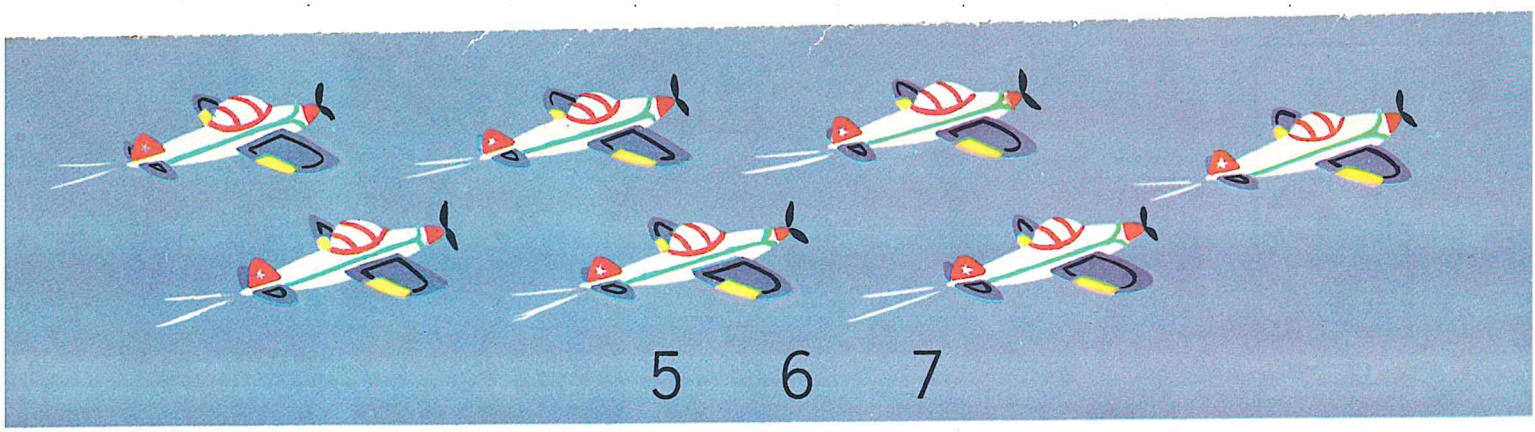
ONE CENT
UNITED STATES OF AMERICA

4¢ 5¢ 6¢

ONE CENT
UNITED STATES OF AMERICA

2¢ 5¢ 6¢



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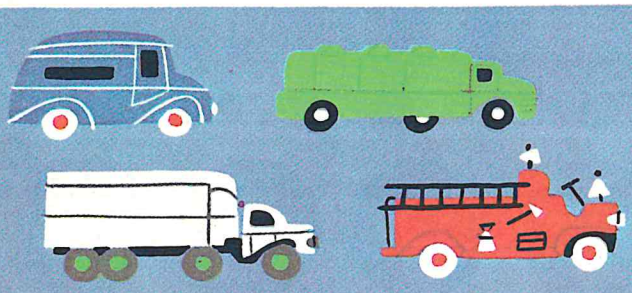

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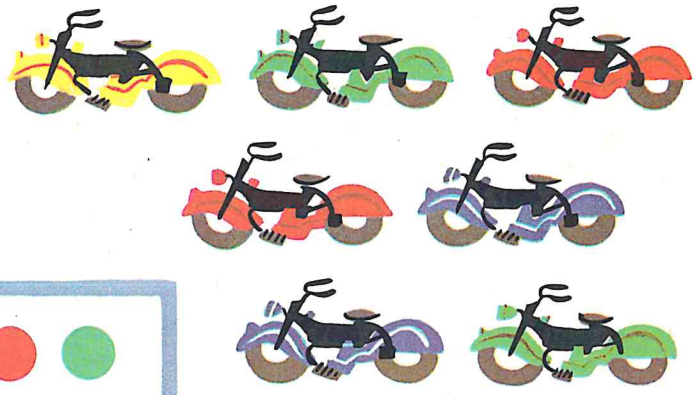

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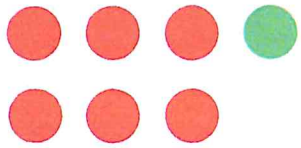

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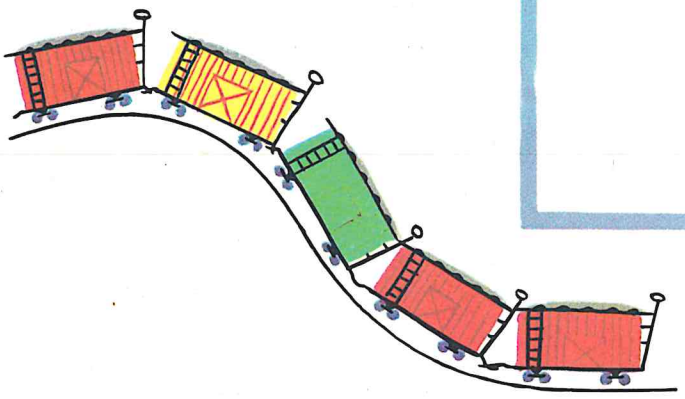

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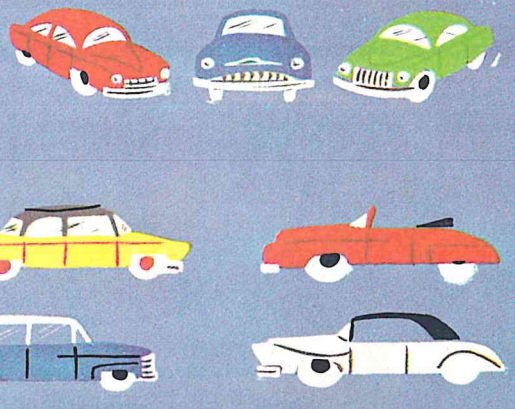

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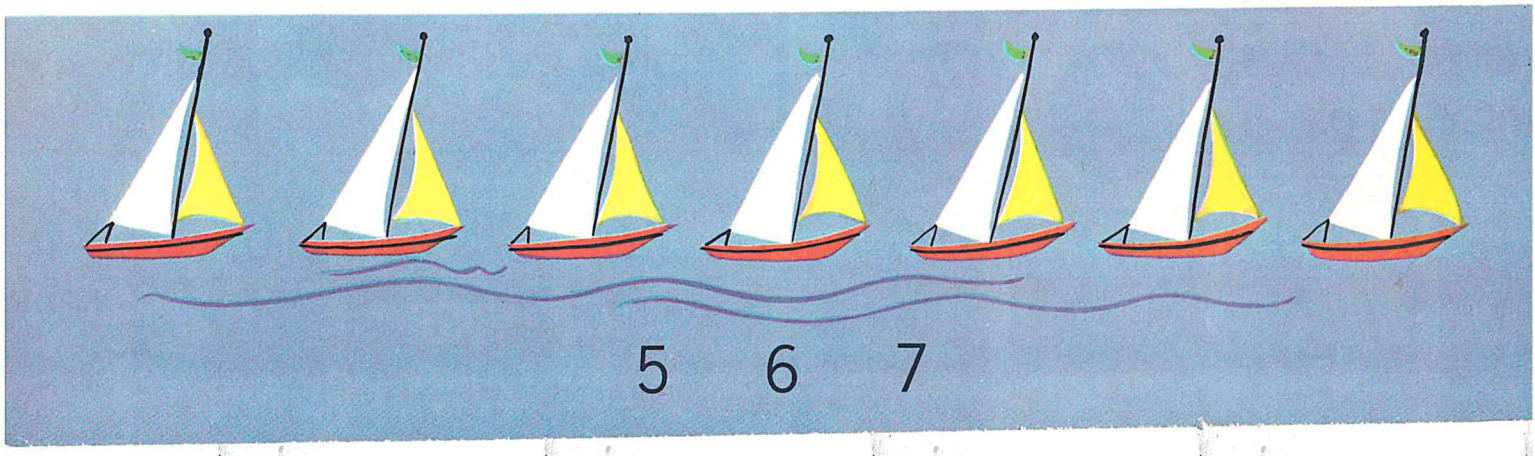

5 6 7

7	7	7	7	7	7	7

1	2	3	4	5	6	7

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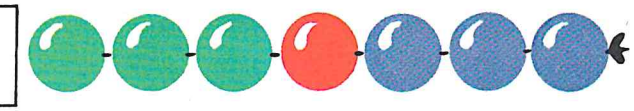
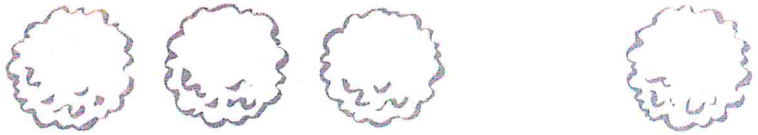
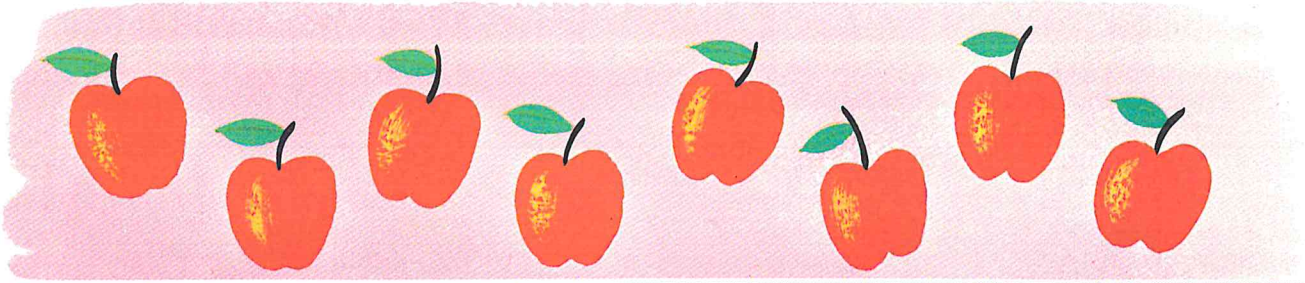
7

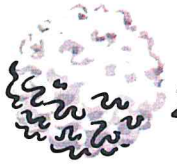






5¢

1¢



2¢

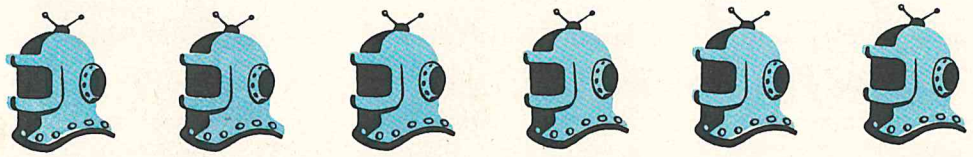
3¢

ONE
CENT
UNITED STATES
OF AMERICA

E PLURIBUS UNUM
LIBERTY
IN GOD WE TRUST
FIVE CENTS
UNITED STATES OF AMERICA

ONE
CENT
UNITED STATES
OF AMERICA

ONE
CENT
UNITED STATES
OF AMERICA



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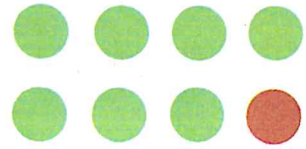

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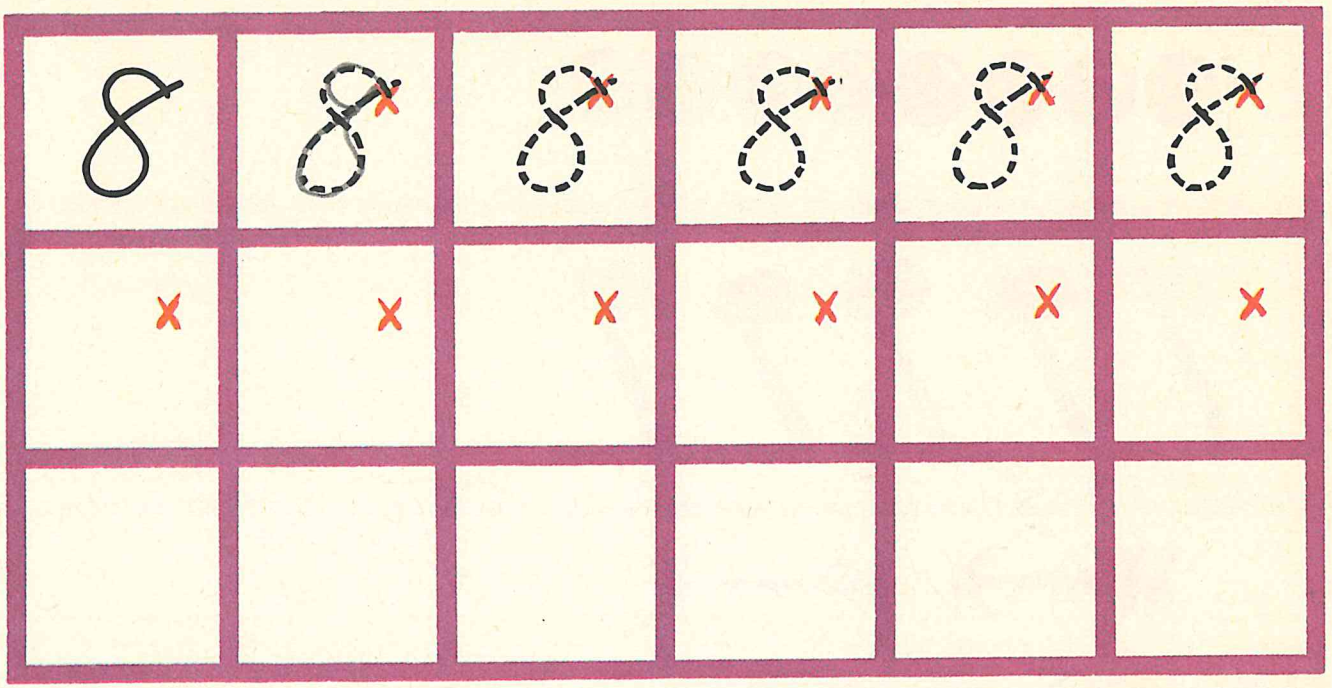

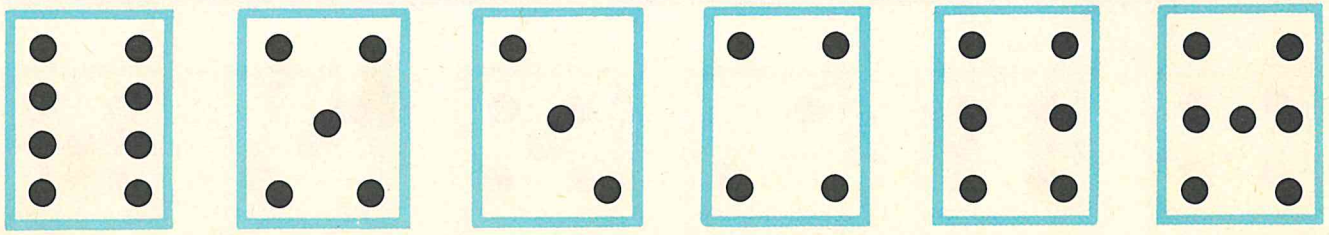

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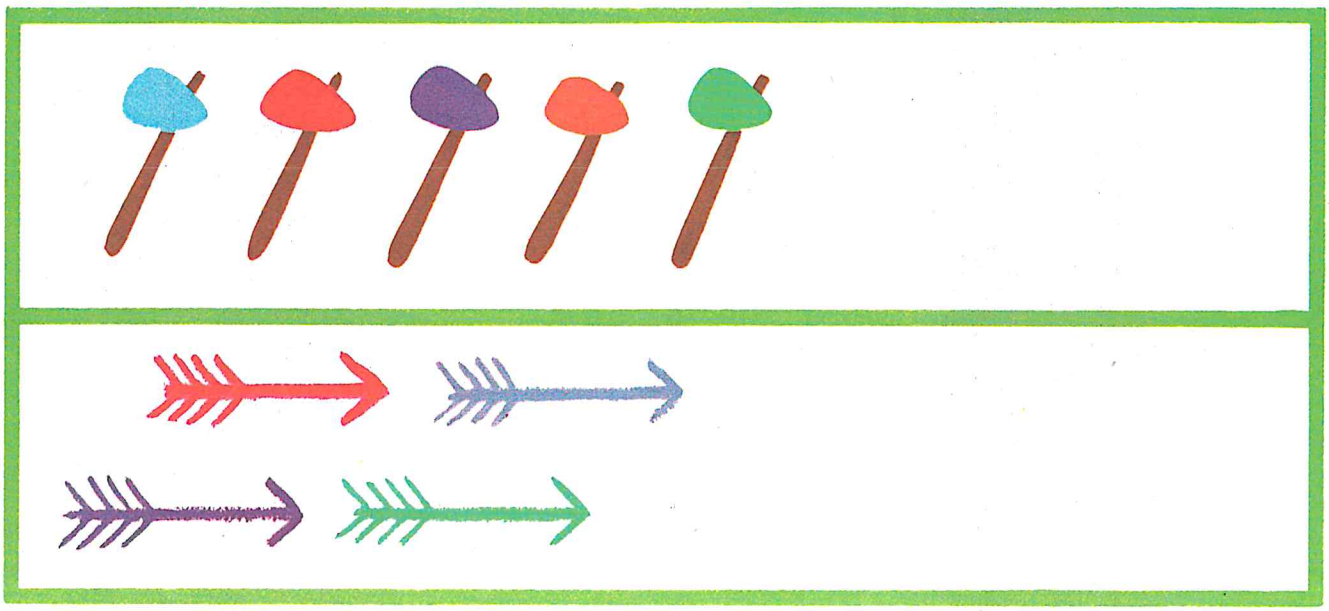

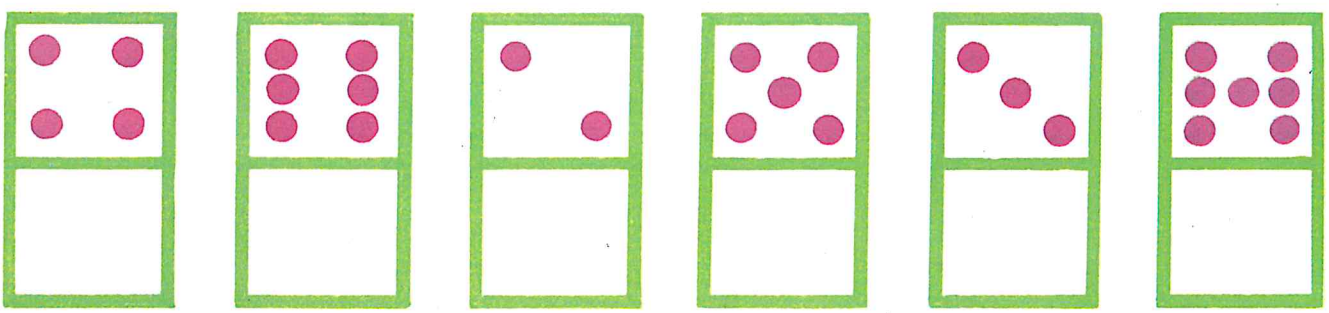

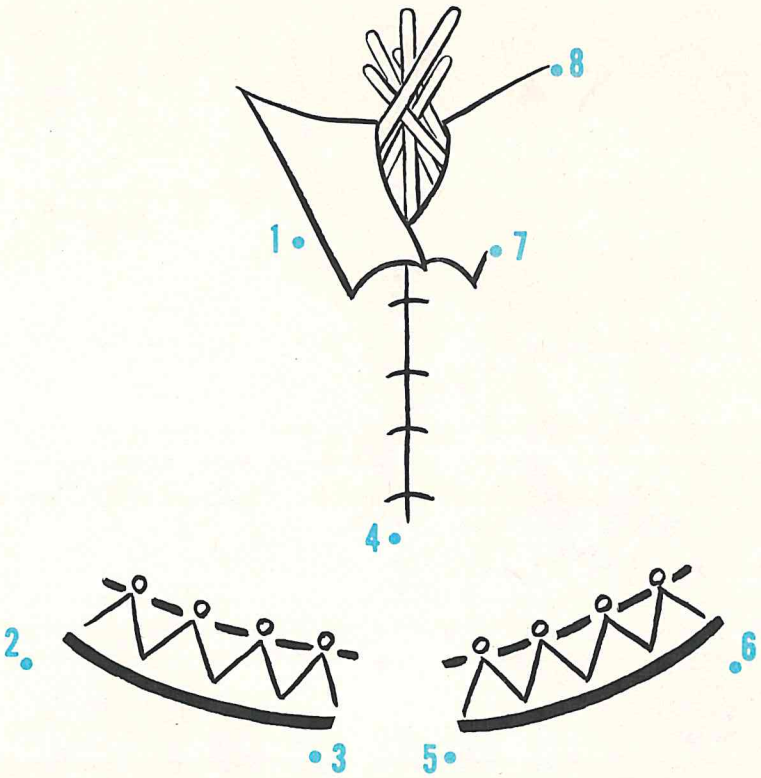

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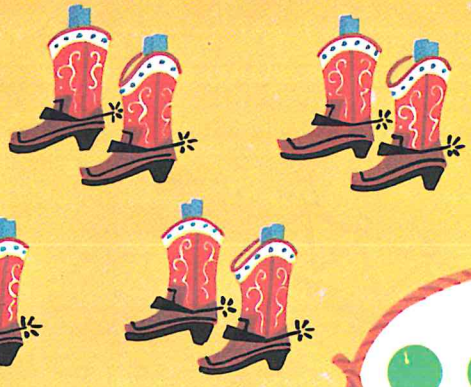

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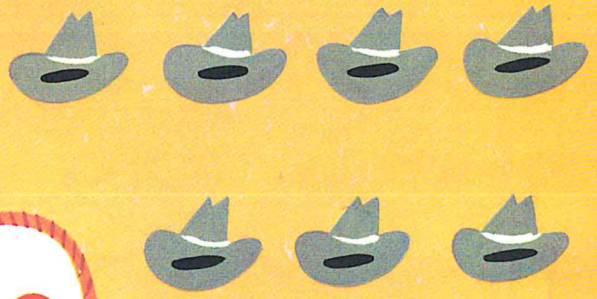

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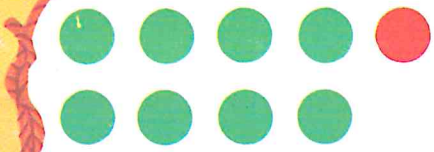

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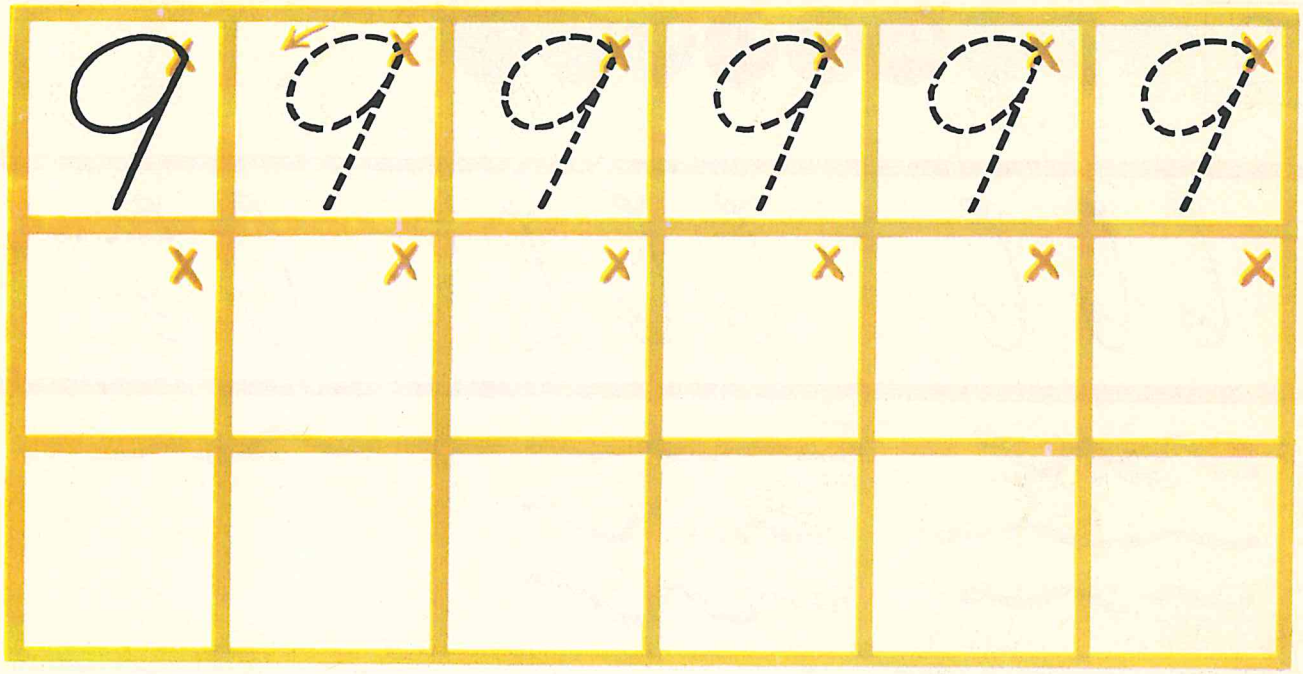
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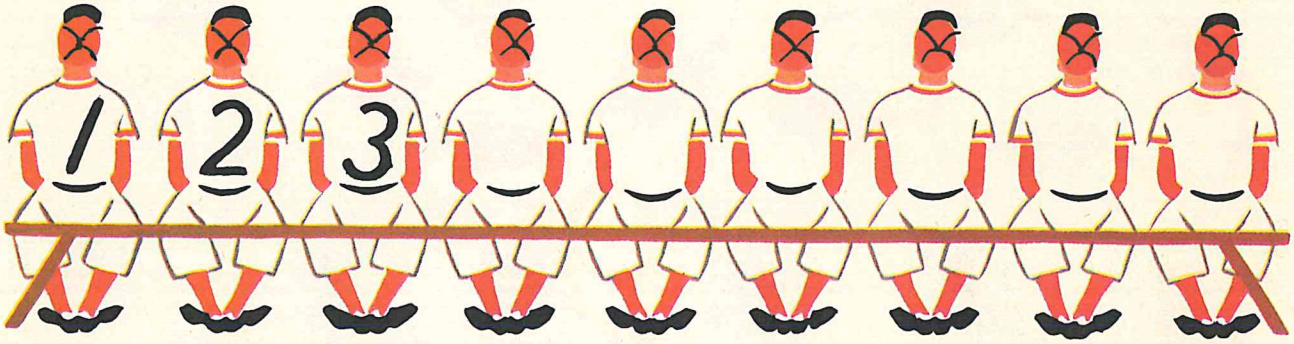
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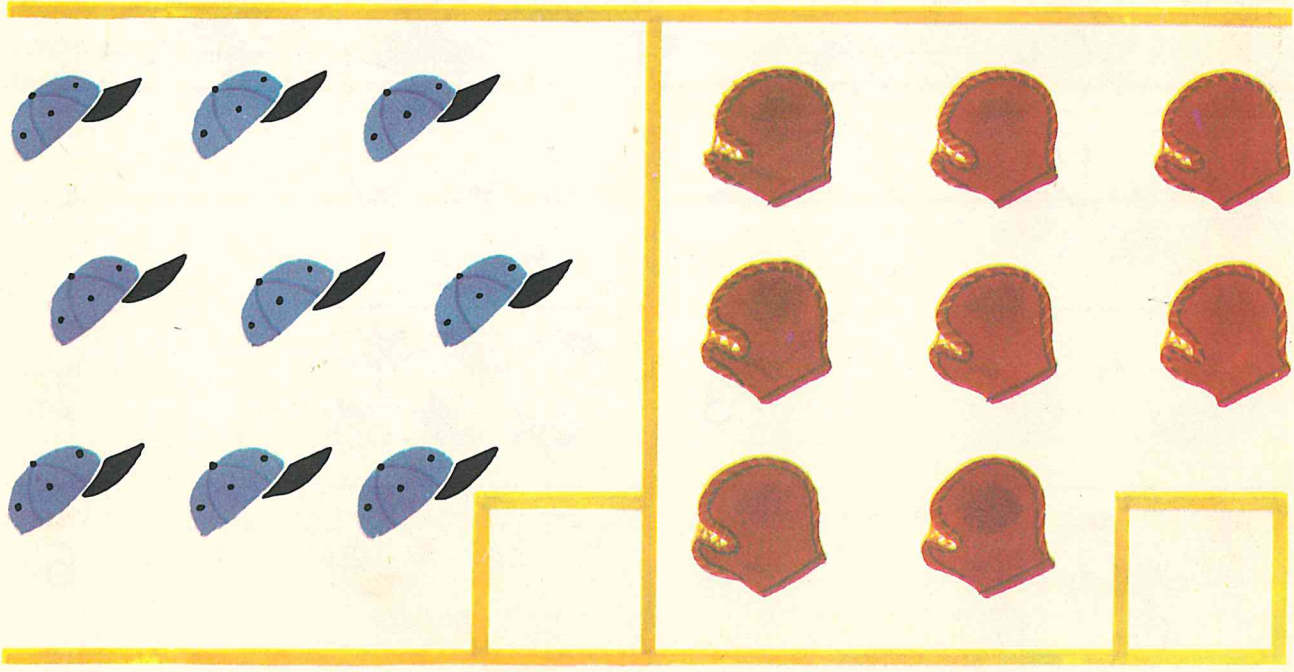

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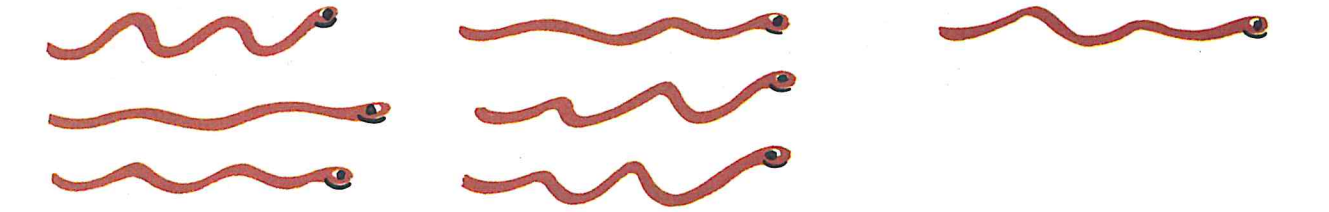

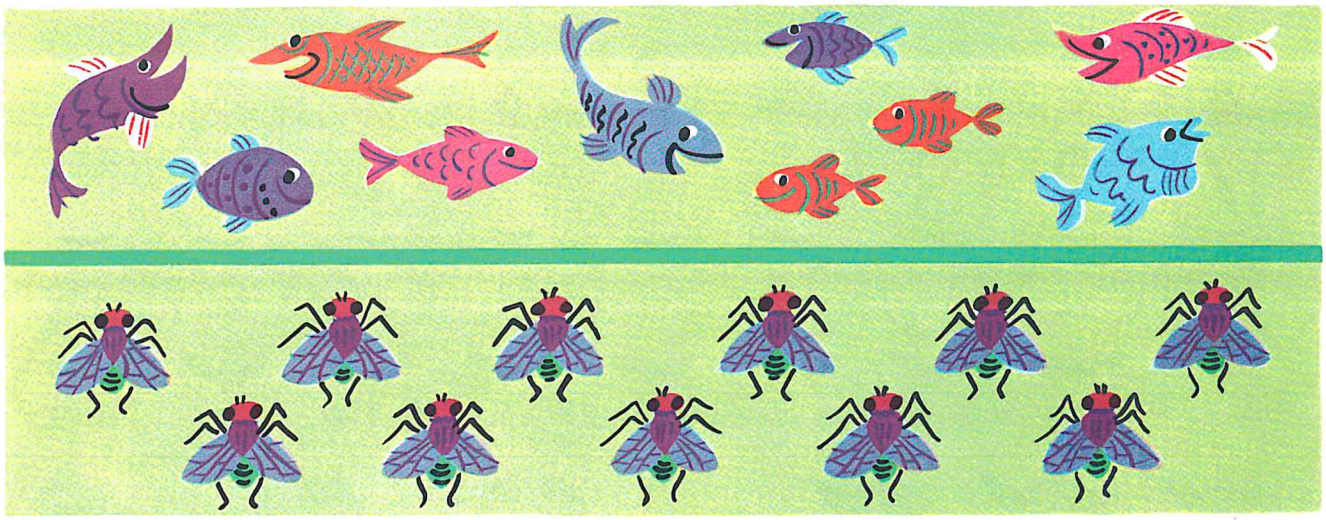

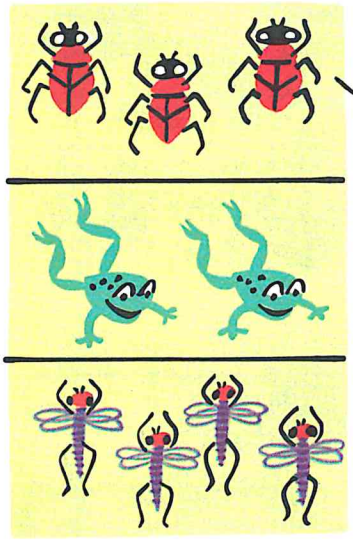

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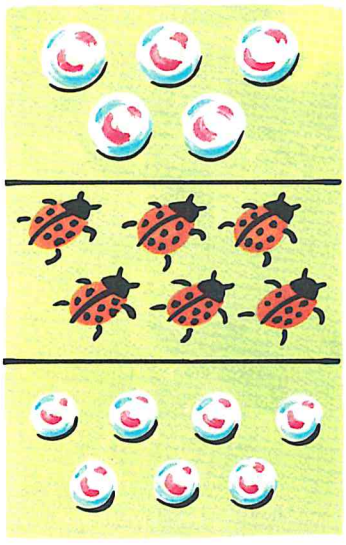

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7

6

ONE CENT
UNITED STATES OF AMERICA

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ONE CENT
UNITED STATES OF AMERICA

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ONE CENT
UNITED STATES OF AMERICA

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ONE CENT
UNITED STATES OF AMERICA

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E PLURIBUS UNUM
MONTICELLO
FIVE CENTS
UNITED STATES OF AMERICA

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E PLURIBUS UNUM
MONTICELLO
FIVE CENTS
UNITED STATES OF AMERICA
ONE CENT
UNITED STATES OF AMERICA

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E PLURIBUS UNUM
MONTICELLO
FIVE CENTS
UNITED STATES OF AMERICA
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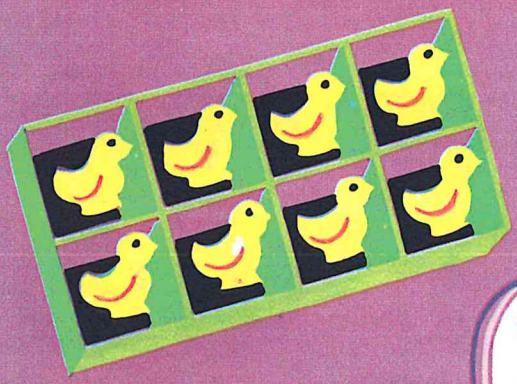

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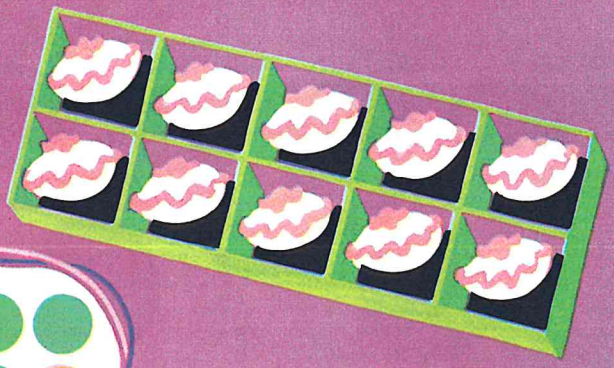

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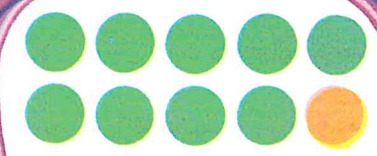

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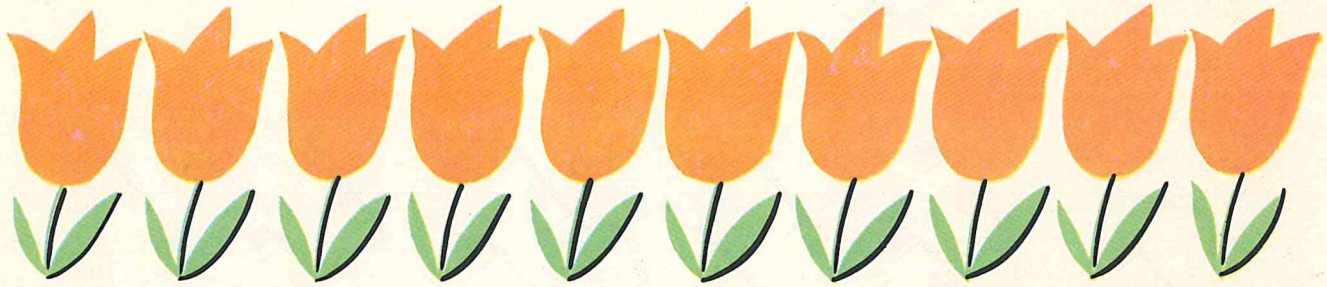

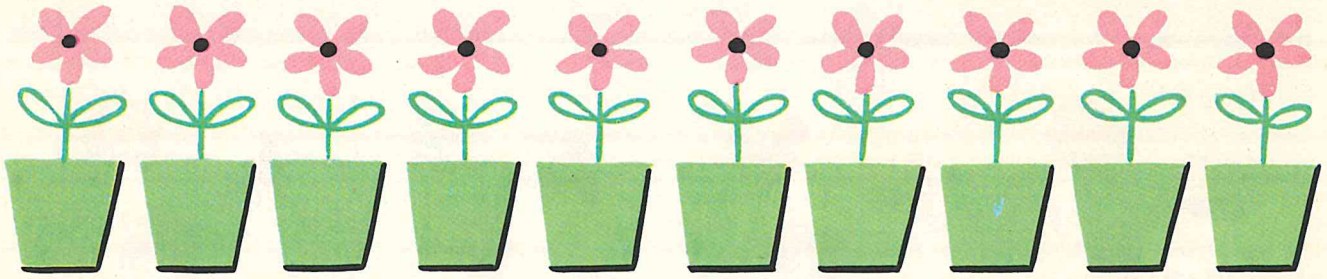

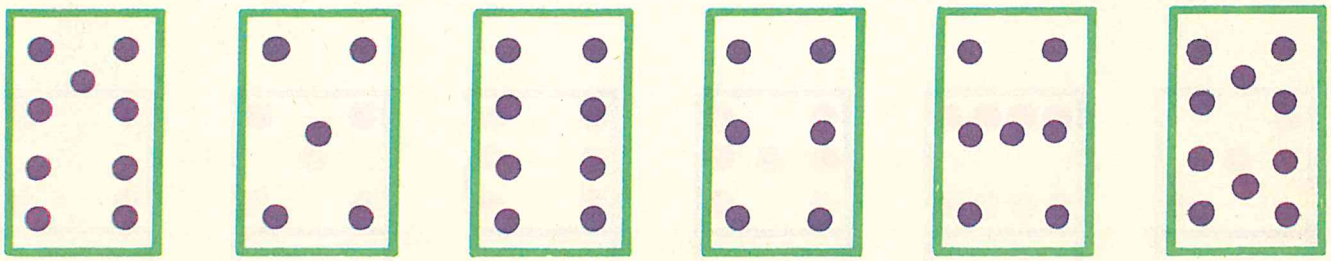

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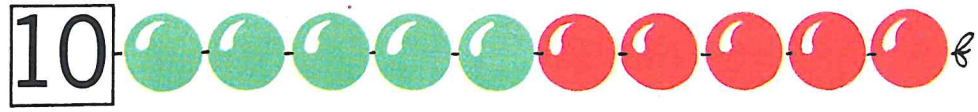

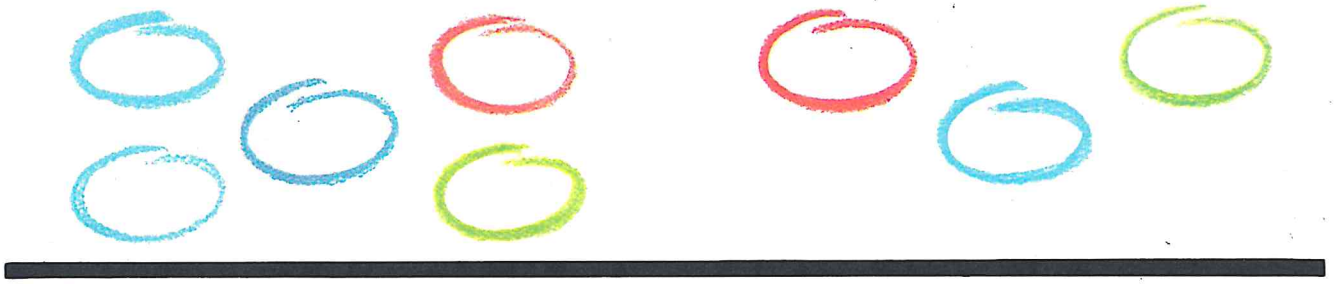

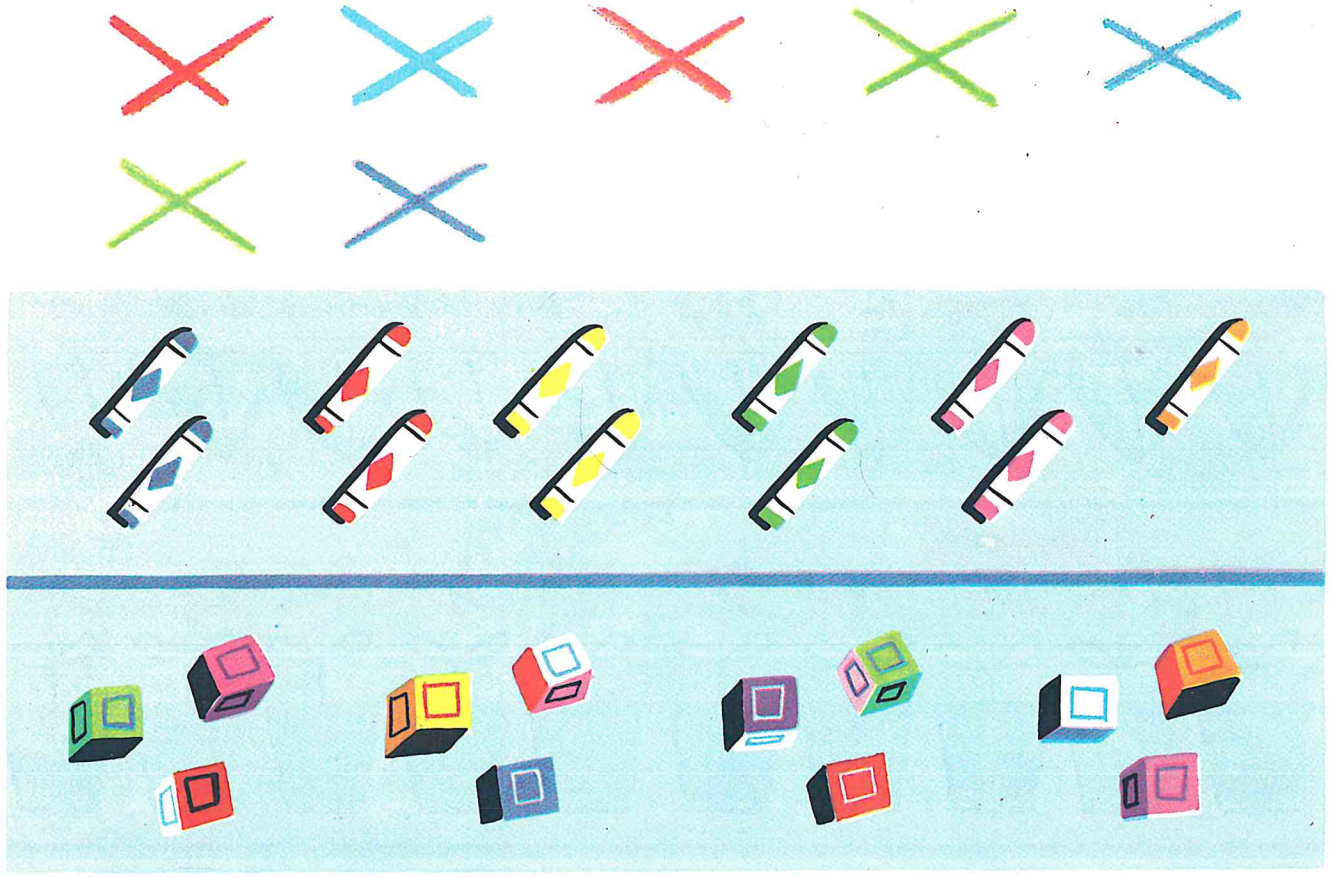

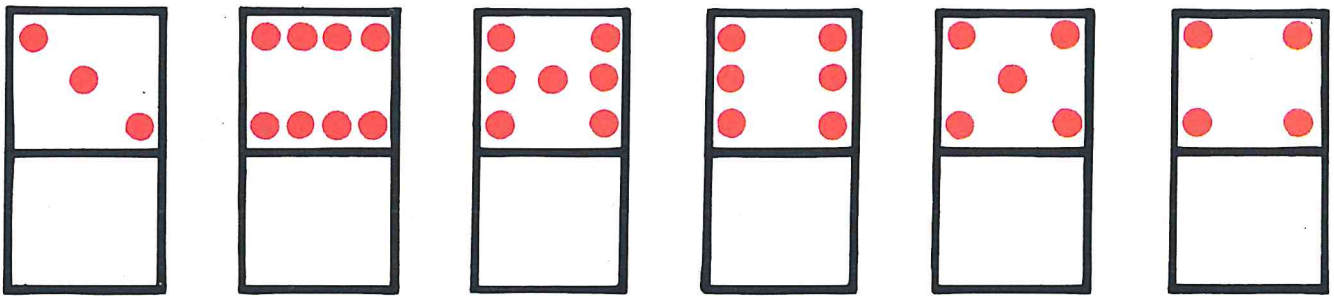

1.

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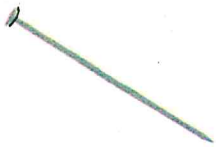
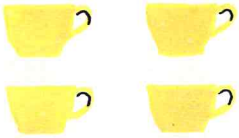
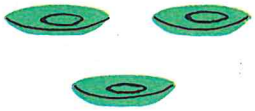
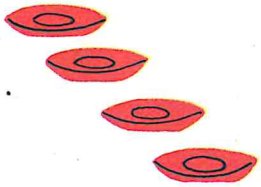
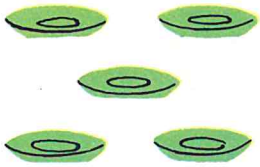
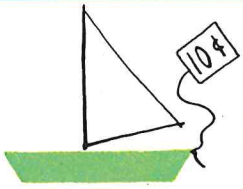
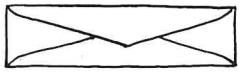
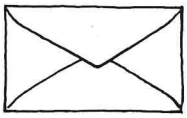
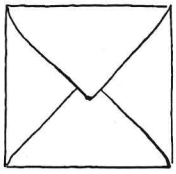
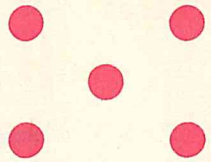
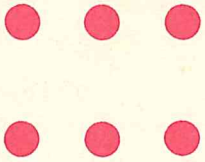
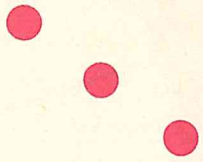
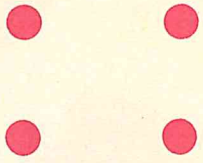
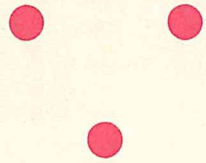
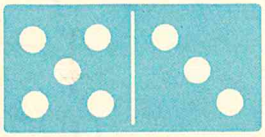
Test 1

1.				
2.				
3.				
4.	6	4	5	7
5.				
6.				
7.				
8.	1	2	3	4

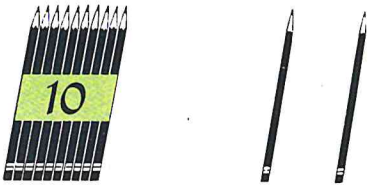
Test 2

1.	2	8	7	3
2.				
3.		three	one	two
4.	6 ___ 8	5	9	7
5.	8	2	4	10
6.	3	5	7	4
7.		10¢	5¢	2¢
8.		7	8	9

10 ones

1 ten

1 ten 1 one



___ ten ___ ones

___ ten ___ ones

___ ten ___ ones

1. 1 ten 1 one

11

2. 1 ten 2 ones

12

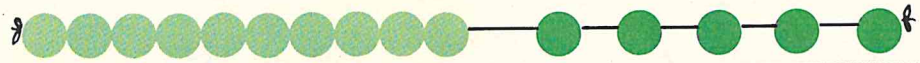
3. 1 ten ____ ones

13

4. 1 ten ____ ones

14

5. 1 ten ____ ones

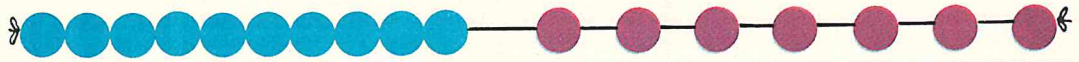


15

6. 1 ten ____ ones

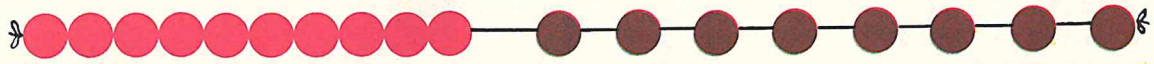
16

7. 1 ten ____ ones



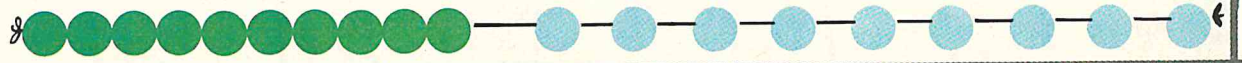
17

8. 1 ten ____ ones



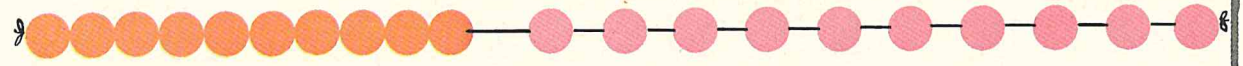
18

9. 1 ten ____ ones



19

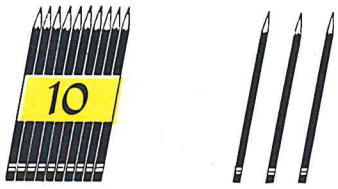
10. 1 ten ____ ones



20

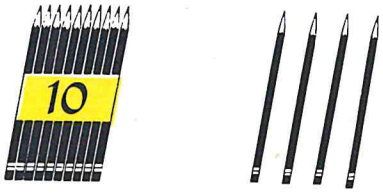
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

1.



11 12 13

2.



14 15 16

3.

16 17 18

4.

14 15 16

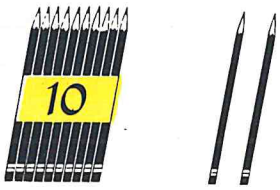
5.

16 17 18

6.

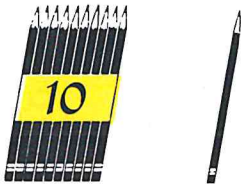
18 19 20

7.



11 12 13

8.



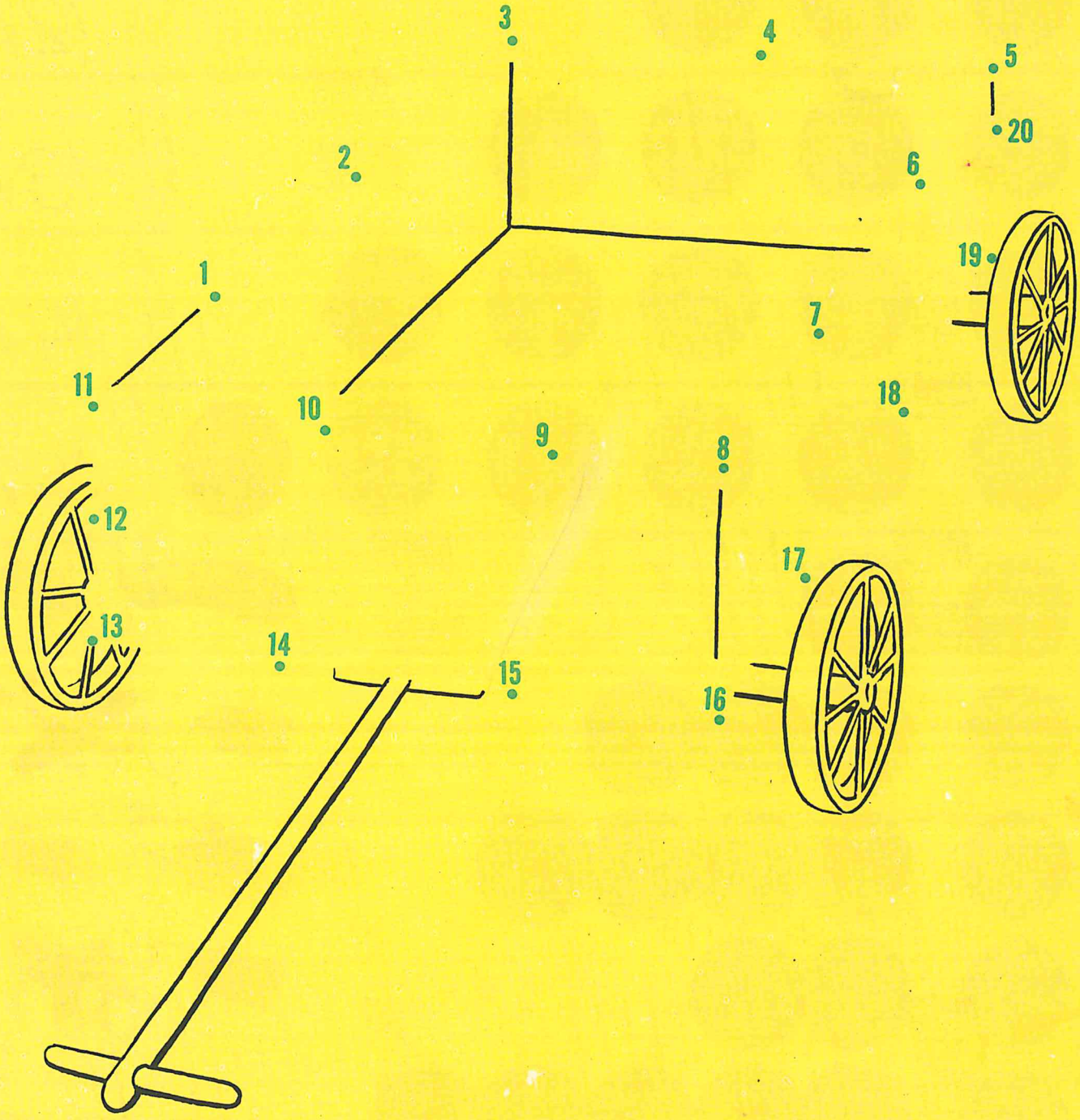
10 11 12

9.

17 18 19

10.

18 19 20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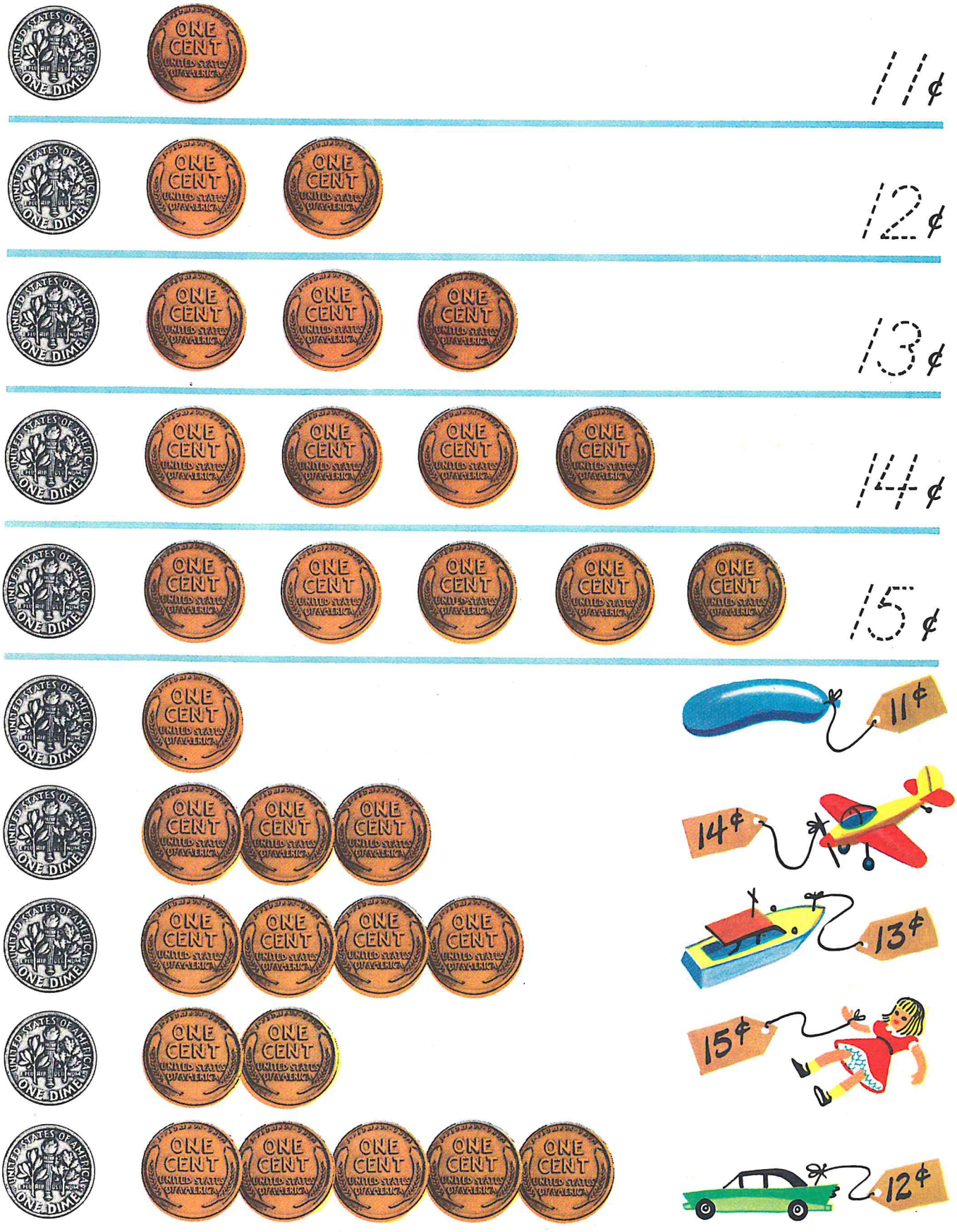
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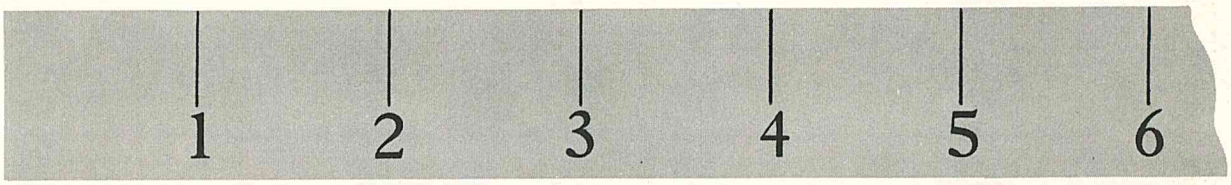

1 inch

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___ inches

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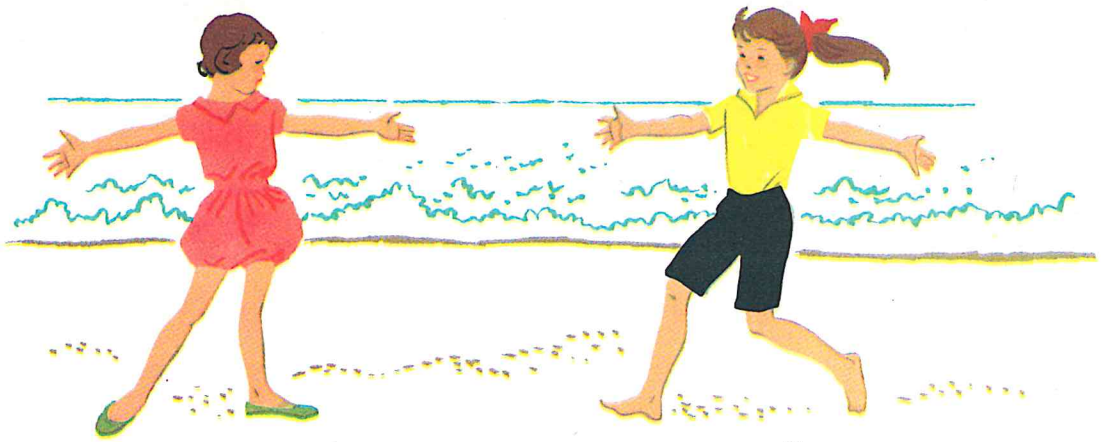
___ inches



1 and 1 are 2.

2 and 1 are ___.

3 and 1 are ___.

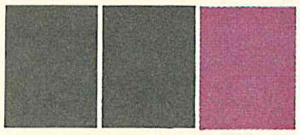
4 and 1 are ___.

5 and 1 are ___.

1.

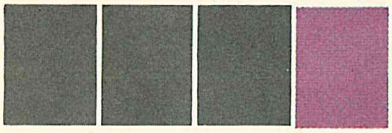
1 and 1 are 2.

2.



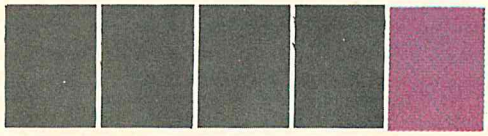
2 and 1 are ___.

3.



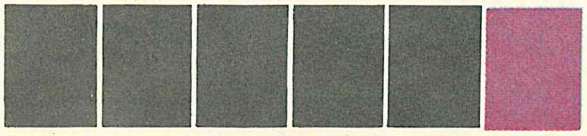
3 and 1 are ___.

4.



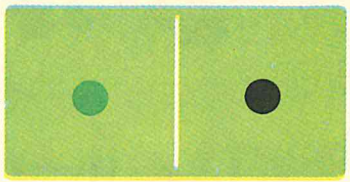
4 and 1 are ___.

5.



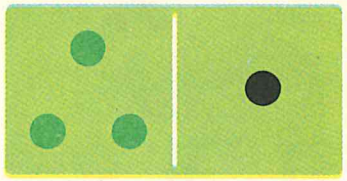
5 and 1 are ___.

6.



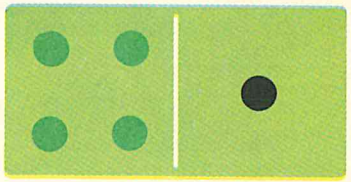
1 and 1 are ___.

7.



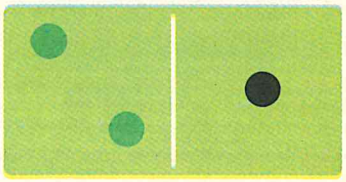
3 and 1 are ___.

8.



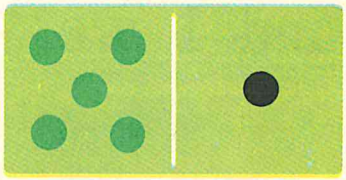
4 and 1 are ___.

9.



2 and 1 are ___.

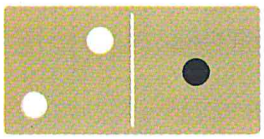
10.



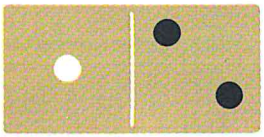
5 and 1 are ___.

3 and 1 are ____.

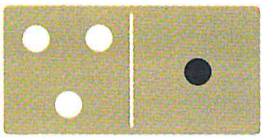
1 and 3 are ____.



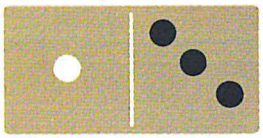
2 and 1 are ____.



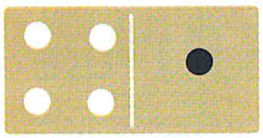
1 and 2 are ____.



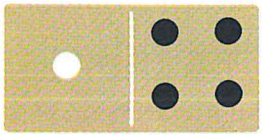
3 and 1 are ____.



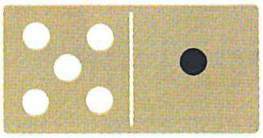
1 and 3 are ____.



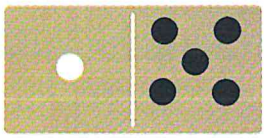
4 and 1 are ____.



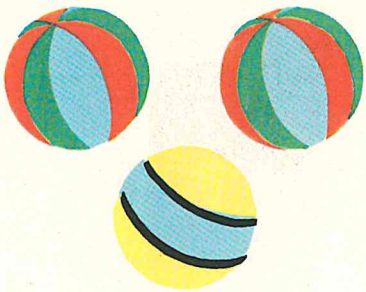
1 and 4 are ____.



5 and 1 are ____.



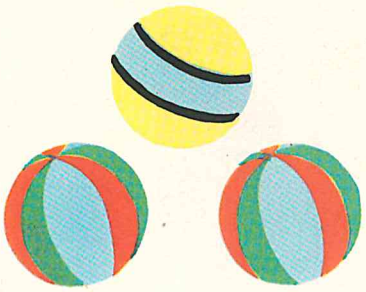
1 and 5 are ____.



2 balls

1 ball

____balls



1 ball

2 balls

____balls

4 hats

1 hat

____hats

1 hat

4 hats

____hats

3 ducks

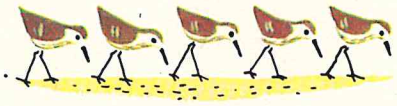
1 duck

____ducks

1 duck

3 ducks

____ducks



5 birds

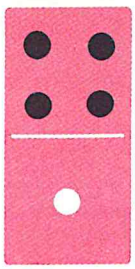
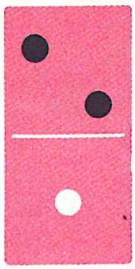
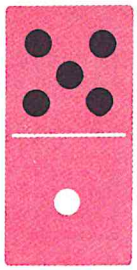
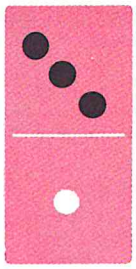
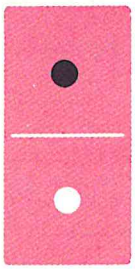
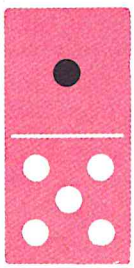
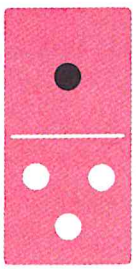
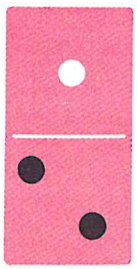
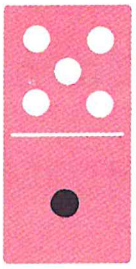
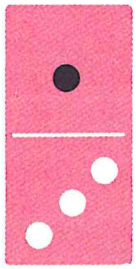
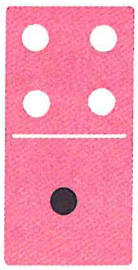
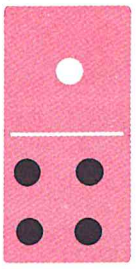
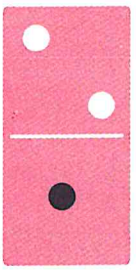
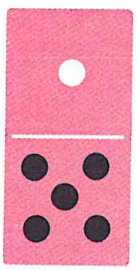
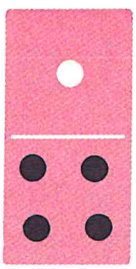
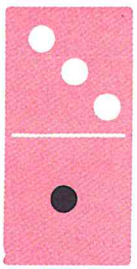
1 bird

____birds

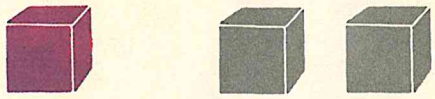
1 bird

5 birds

____birds

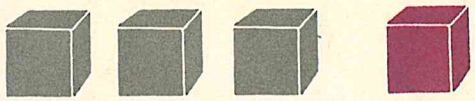
 4 + 1 = 5	 2 + 1 = 3	 5 + 1 =	 3 + 1 =
 1 + 1 =	 1 + 5 =	 1 + 3 =	 1 + 2 =
 5 + 1 =	 1 + 3 =	 4 + 1 =	 1 + 4 =
 2 + 1 =	 1 + 5 =	 1 + 4 =	 3 + 1 =

1



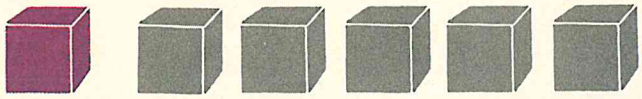
$$\begin{array}{r} 1 \\ 2 \\ \hline 3 \end{array} \qquad \begin{array}{r} 2 \\ 1 \\ \hline 3 \end{array}$$

2



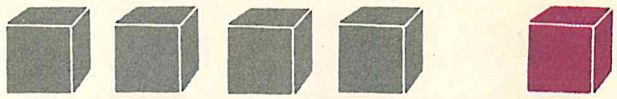
$$\begin{array}{r} 3 \\ 1 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ 3 \\ \hline \end{array}$$

3



$$\begin{array}{r} 1 \\ 5 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ 1 \\ \hline \end{array}$$

4

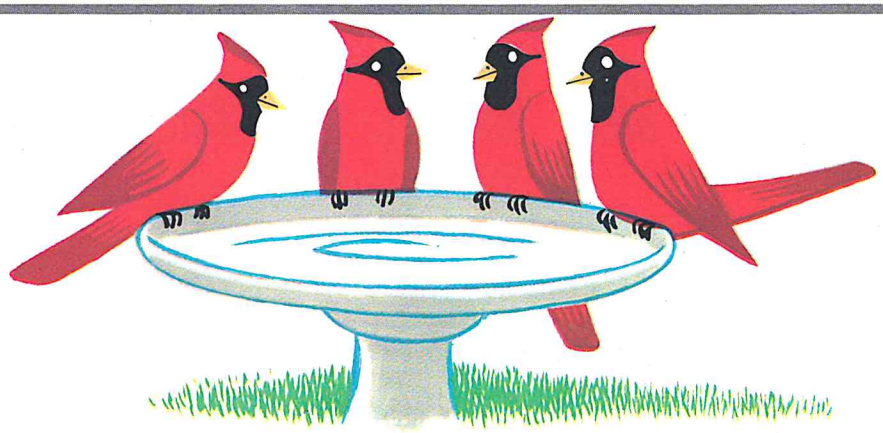


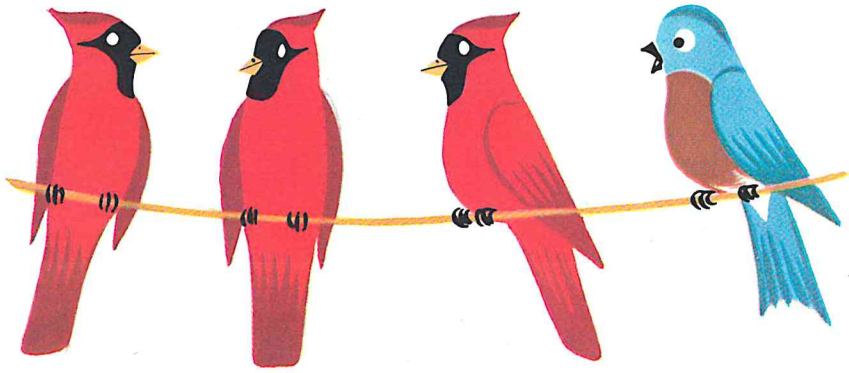
$$\begin{array}{r} 4 \\ 1 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ 4 \\ \hline \end{array}$$

A			B			C		
4	5	6	1	2	3	3	4	5
3	4	___	4	___	6	___	3	4
1	2	___	2	___	4	___	5	6
2	3	___	3	___	5	___	2	3

4

four

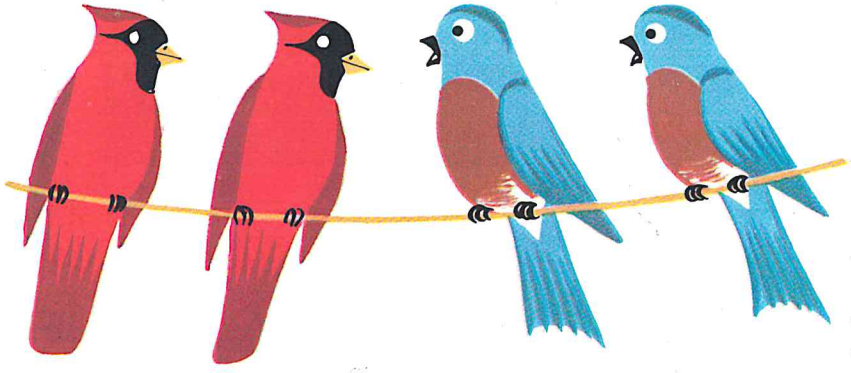




___ red birds

___ blue birds

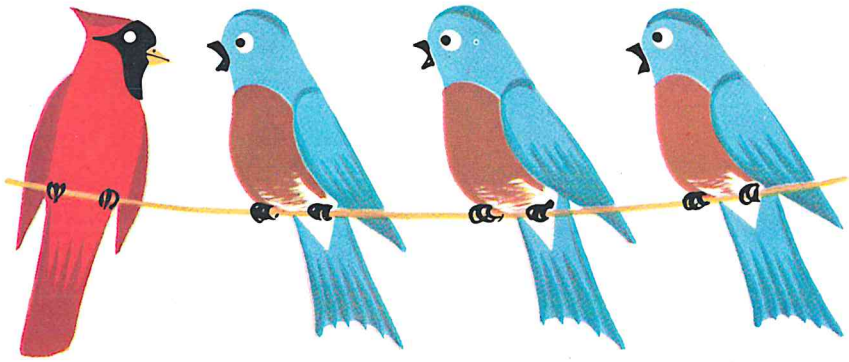
3 and 1 are ___.



___ red birds

___ blue birds

2 and 2 are ___.



___ red birds

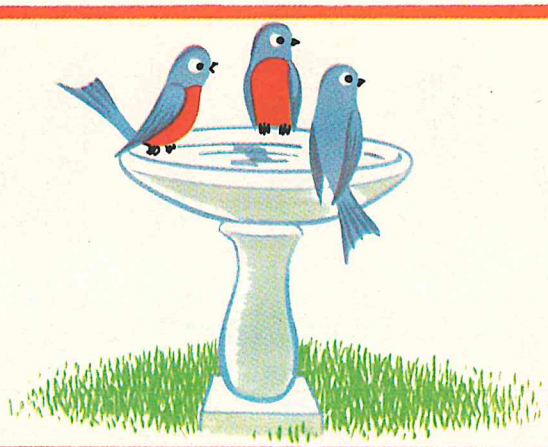
___ blue birds

1 and 3 are ___.

●●● ●

4

four

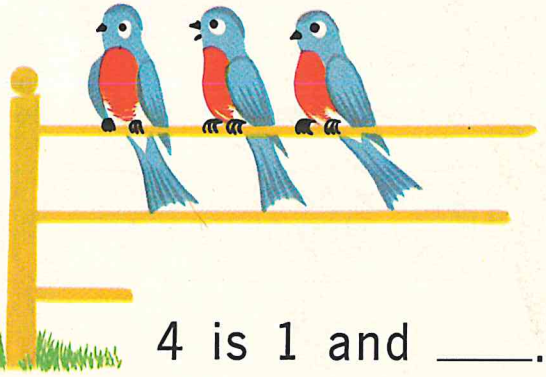


4 is 3 and ____.

● ●●●

4

four



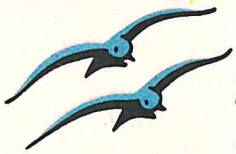
4 is 1 and ____.

●● ●●

4

four

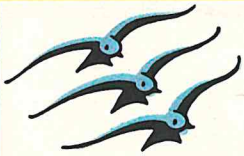
4 is 2 and ____.



2 birds

2 birds

____ birds



3 birds

1 bird

____ birds

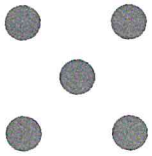
1 bird

3 birds

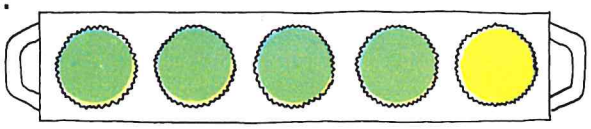
____ birds

5

five



1.

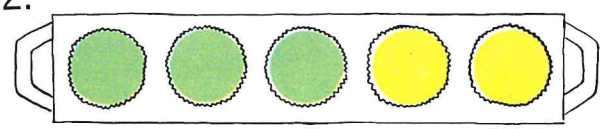


4 green cakes

1 yellow cake

4 and 1 are ____.

2.

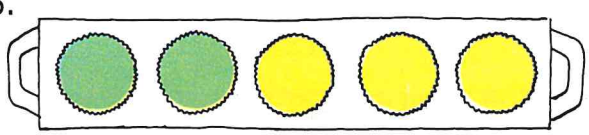


____ green cakes

____ yellow cakes

3 and 2 are ____.

3.

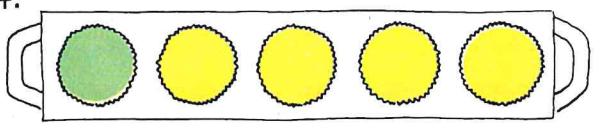


____ green cakes

____ yellow cakes

3 and 2 are ____.

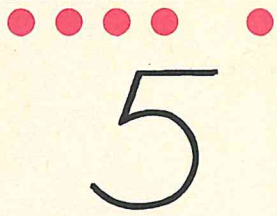
4.



____ green cake

____ yellow cakes

1 and 4 are ____.



5

five

5 is 4 and ____.

5

five

5 is 1 and ____.

5

five

5 is 3 and ____.

5

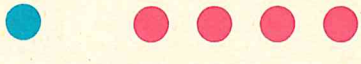
five

5 is 2 and ____.

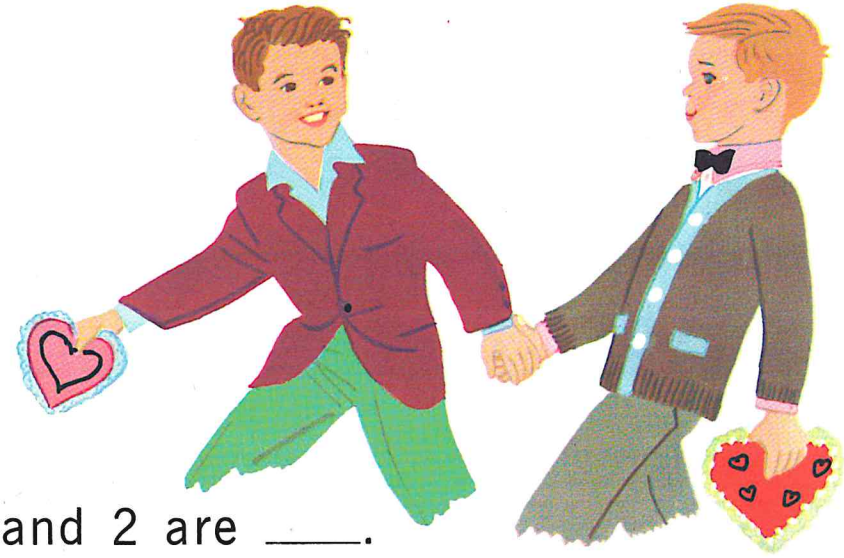
3 and 2 are ____.

4 and 1 are ____.

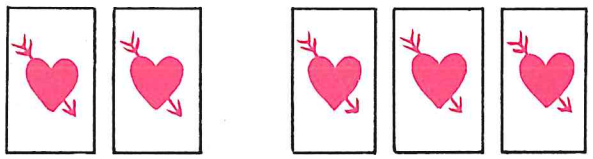
2 and 3 are ____.



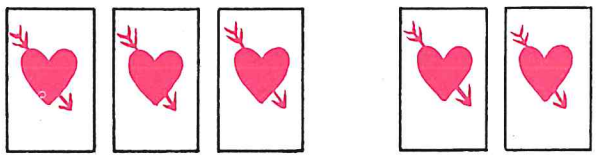
1 and 4 are ____.



2 and 2 are ____.

1. 

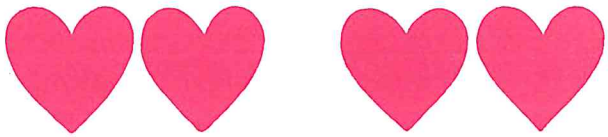
2 and 3 are ____.

2. 

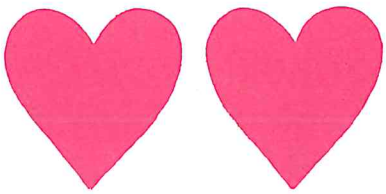
3 and 2 are ____.

3.

1 and 1 are ____.

4. 

2 and 2 are ____.

5. 

2 hearts

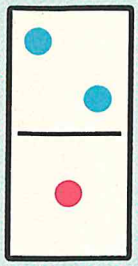
___3___ hearts

____ hearts

3 hearts

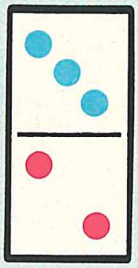
___2___ hearts

____ hearts



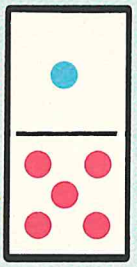
2

1



3

2



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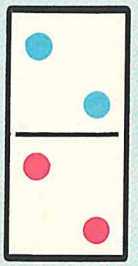
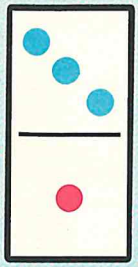
5



2

2



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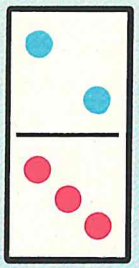
1



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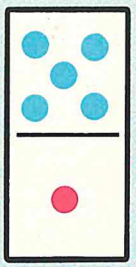
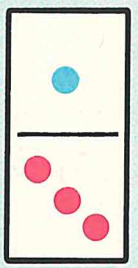
3



5

1



1

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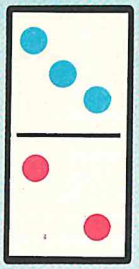
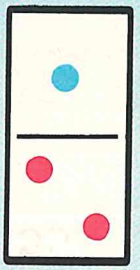


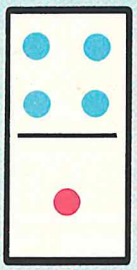
3

2



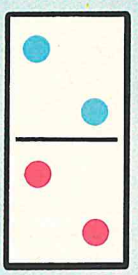
1

2



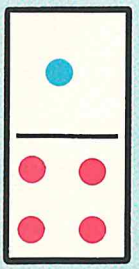
4

1



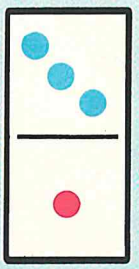
2

2



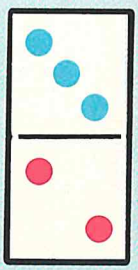
1

4



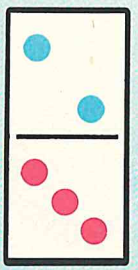
3

1



3

2

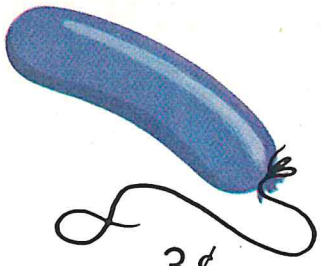


2

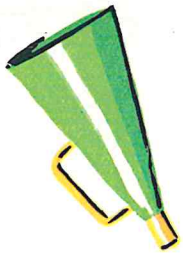
3

1¢

2¢



3¢



4¢

5¢

1.

ONE CENT
UNITED STATES OF AMERICA

2.

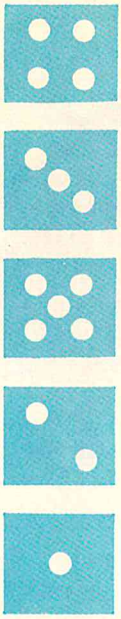
ONE CENT
UNITED STATES OF AMERICA

3.

ONE CENT
UNITED STATES OF AMERICA

4.

1.



four

five

three

two

one

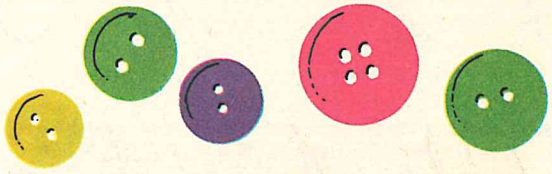
2.

1	two
2	one
3	three
4	five
5	four

3.

four ten two

4.

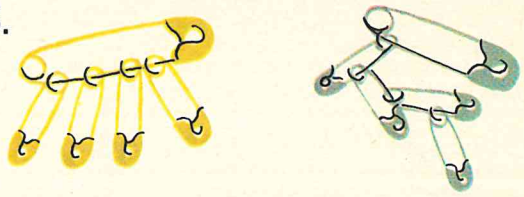


one three five

5.

five two three

6.



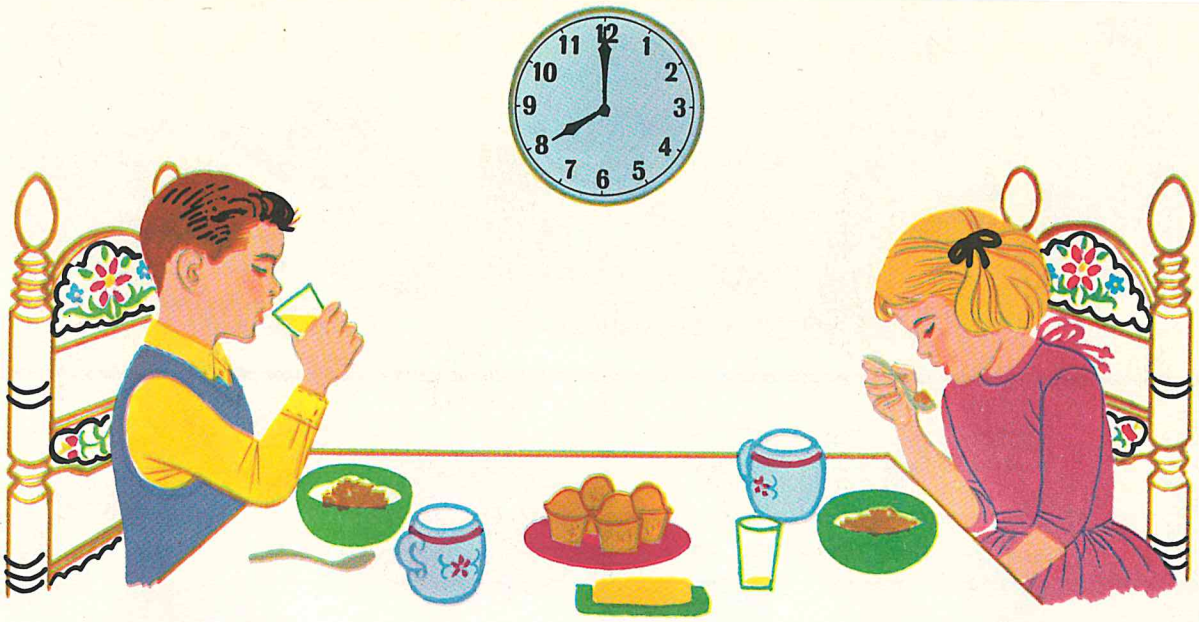
three five ten

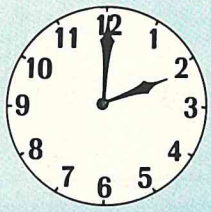
A			B			C		
7	8	____	8	____	10	____	8	9
6	7	____	6	____	8	____	6	7
8	9	____	7	____	9	____	9	10
5	6	____	5	____	7	____	7	8

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

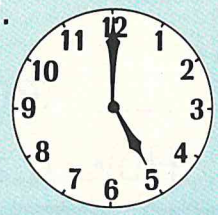
1	2								

1	2								

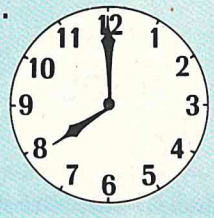


1. 

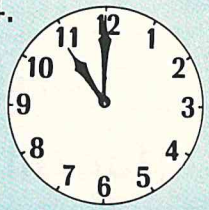
____ o'clock

2. 

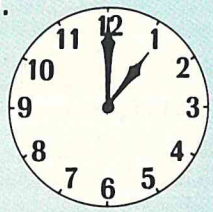
____ o'clock

3. 

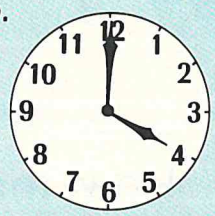
____ o'clock

4. 

____ o'clock

5. 

____ o'clock

6. 

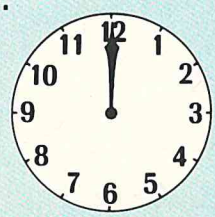
____ o'clock

7.

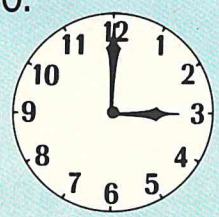
____ o'clock

8.

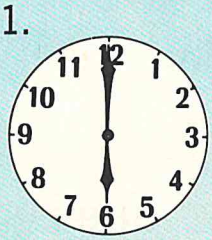
____ o'clock

9. 

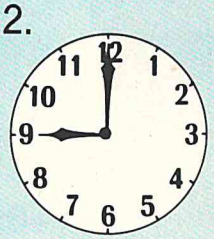
____ o'clock

10. 

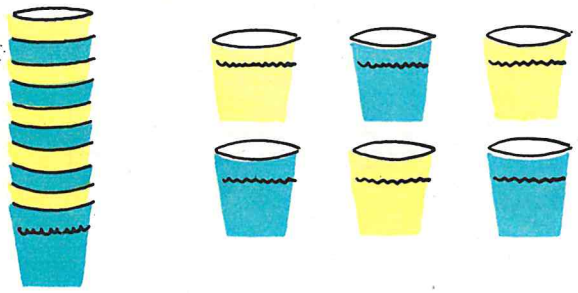
____ o'clock

11. 

____ o'clock

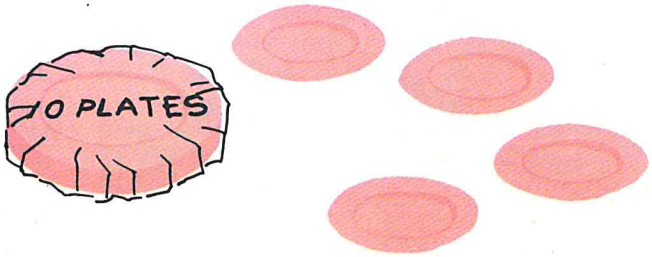
12. 

____ o'clock



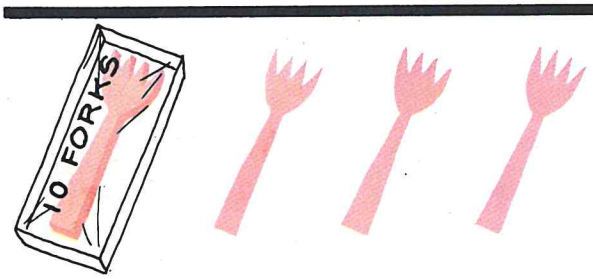
1 ten 6 ones

How many? 16



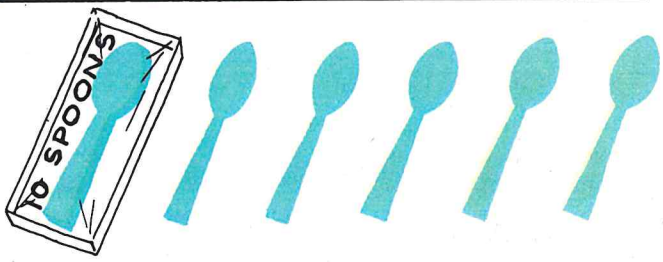
___ ten ___ ones

How many? ___



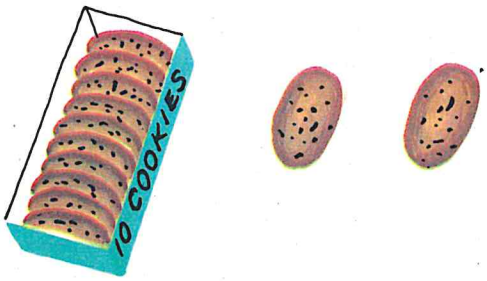
___ ten ___ ones

How many? ___



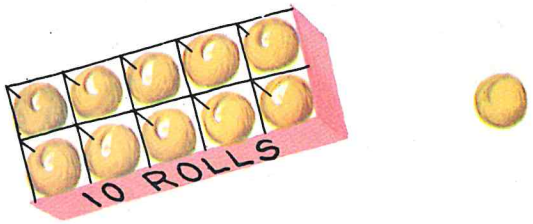
___ ten ___ ones

How many? ___



___ ten ___ ones

How many? ___



___ ten ___ ones

How many? ___

1.

10¢ and ____ ¢

¢

2.

10¢ and ____ ¢

¢

3.

10¢ and ____ ¢

¢

4.

10¢ and ____ ¢

¢

5.

10¢ and ____ ¢

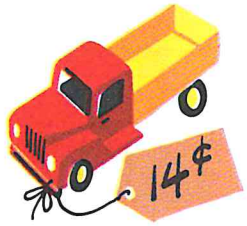
¢

6.

10¢ and ____ ¢

¢

12¢


14¢

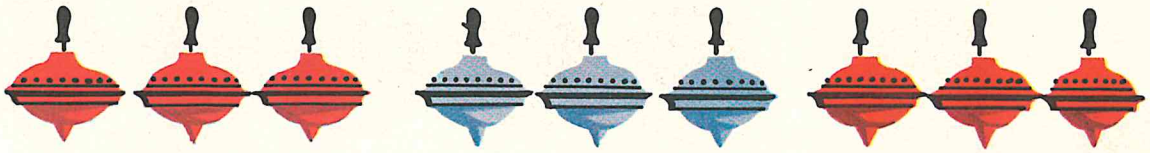
10¢

13¢

16¢

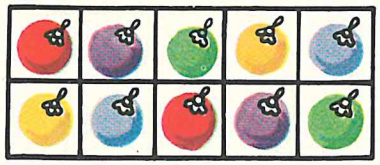
PETER RABBIT
18¢

1. How many? ____



____

2.

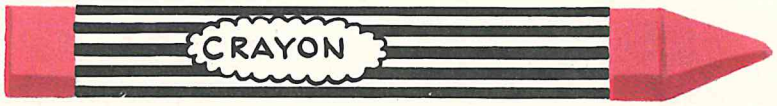


10 balls and 3 balls are ____ balls.

3.

3 and 2 are ____.

4.



____ inches

5.

____ ¢

6.

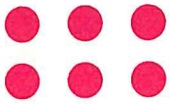
____ ¢

7.

____ ¢

6

six



5 blue dolls

1 pink doll

5 and 1 are ____.

1.

____ blue dolls

____ pink dolls

4 and 2 are ____.

2.

____ blue dolls

____ pink dolls

3 and 3 are ____.

3.

____ blue dolls

____ pink dolls

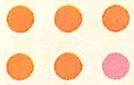
2 and 4 are ____.

4.

____ blue dolls

____ pink dolls

1 and 5 are ____.



6

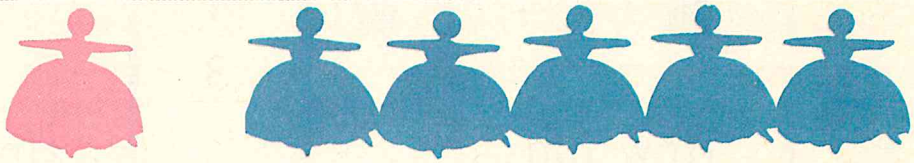
six

1.

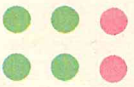
6 is 5 and ____.

6

six

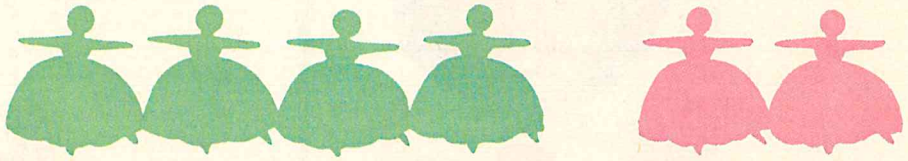
2. 

6 is 1 and ____.



6

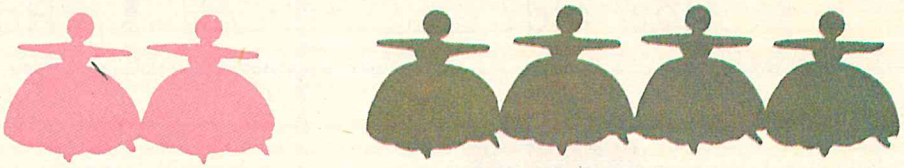
six

3. 

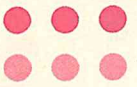
6 is 4 and ____.

6

six

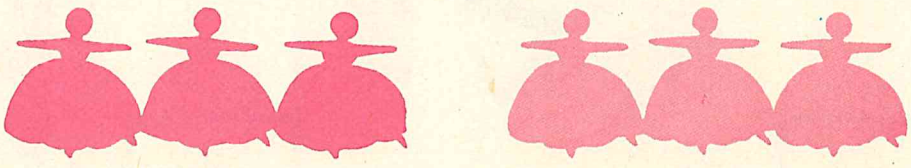
4. 

6 is 2 and ____.



6

six

5. 

6 is 3 and ____.

5
1
6

How old? ____

2
3

How old? ____

4
2

How old? ____

2
4

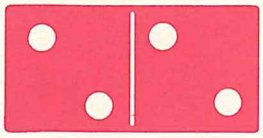
How old? ____

3
2

How old? ____

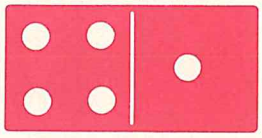
3
3

How old? ____

1. 

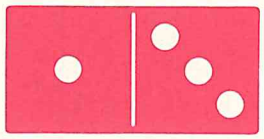
$$\begin{array}{r} 2 \\ +2 \\ \hline 4 \end{array}$$

2 and 2 are 4.

2. 

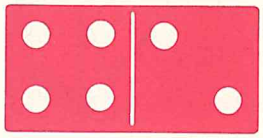
$$\begin{array}{r} 4 \\ +1 \\ \hline \end{array}$$

4 and 1 are ____.

3. 

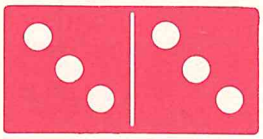
$$\begin{array}{r} 1 \\ +3 \\ \hline \end{array}$$

1 and 3 are ____.

4. 

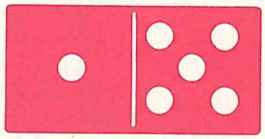
$$\begin{array}{r} 4 \\ +2 \\ \hline \end{array}$$

4 and 2 are ____.

5. 

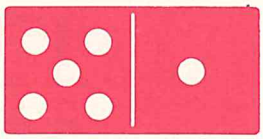
$$\begin{array}{r} 3 \\ +3 \\ \hline \end{array}$$

3 and 3 are ____.

6. 

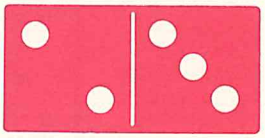
$$\begin{array}{r} 1 \\ +5 \\ \hline \end{array}$$

1 and 5 are ____.

7. 

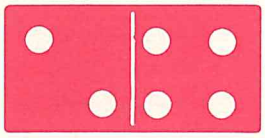
$$\begin{array}{r} 5 \\ +1 \\ \hline \end{array}$$

5 and 1 are ____.

8. 

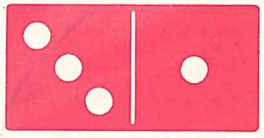
$$\begin{array}{r} 2 \\ +3 \\ \hline \end{array}$$

2 and 3 are ____.

9. 

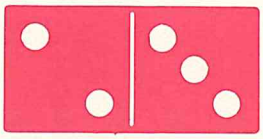
$$\begin{array}{r} 2 \\ +4 \\ \hline \end{array}$$

2 and 4 are ____.

10. 

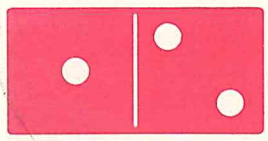
$$\begin{array}{r} 3 \\ +1 \\ \hline \end{array}$$

3 and 1 are ____.

11. 

$$\begin{array}{r} 2 \\ +3 \\ \hline \end{array}$$

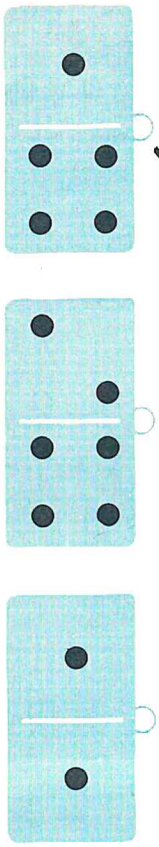
2 and 3 are ____.

12. 

$$\begin{array}{r} 1 \\ +2 \\ \hline \end{array}$$

1 and 2 are ____.

1.

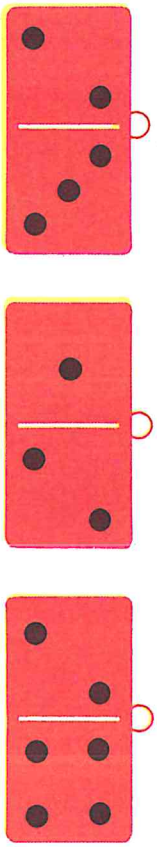


$\begin{array}{r} 2 \\ +4 \\ \hline 6 \end{array}$

$\begin{array}{r} 1 \\ +4 \\ \hline 5 \end{array}$

$\begin{array}{r} 1 \\ +1 \\ \hline 2 \end{array}$

2.

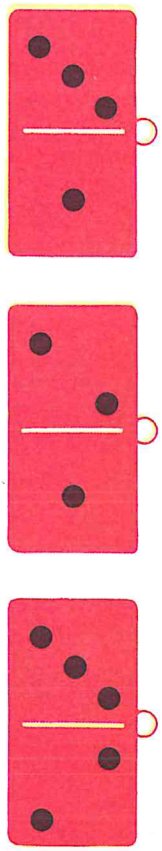


$\begin{array}{r} 2 \\ +3 \\ \hline 5 \end{array}$

$\begin{array}{r} 2 \\ +4 \\ \hline 6 \end{array}$

$\begin{array}{r} 1 \\ +2 \\ \hline 3 \end{array}$

3.

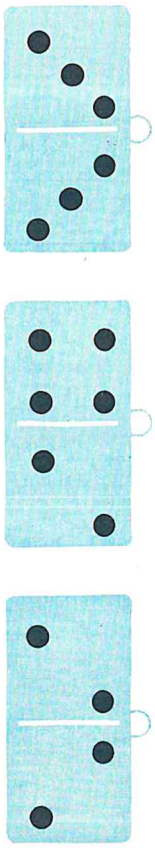


$\begin{array}{r} 2 \\ +1 \\ \hline 3 \end{array}$

$\begin{array}{r} 3 \\ +1 \\ \hline 4 \end{array}$

$\begin{array}{r} 3 \\ +2 \\ \hline 5 \end{array}$

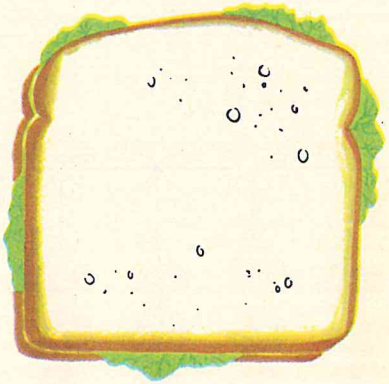
4.

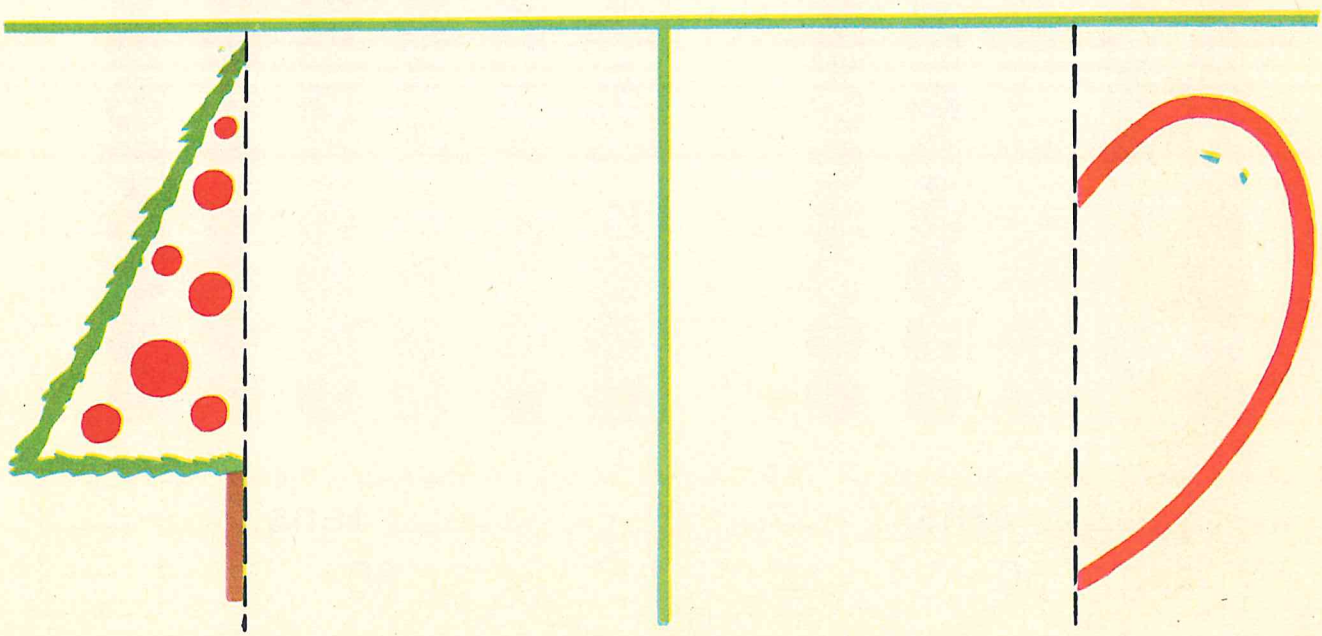


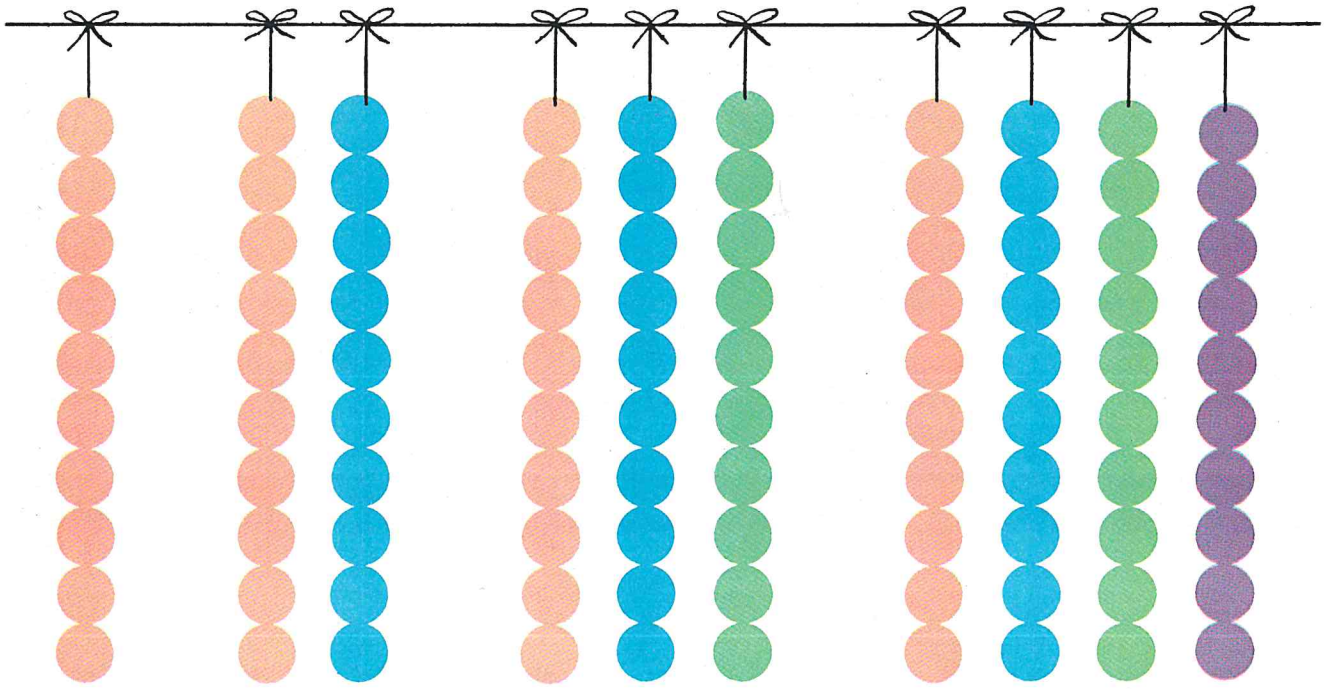
$\begin{array}{r} 3 \\ +3 \\ \hline 6 \end{array}$

$\begin{array}{r} 4 \\ +2 \\ \hline 6 \end{array}$

$\begin{array}{r} 2 \\ +2 \\ \hline 4 \end{array}$





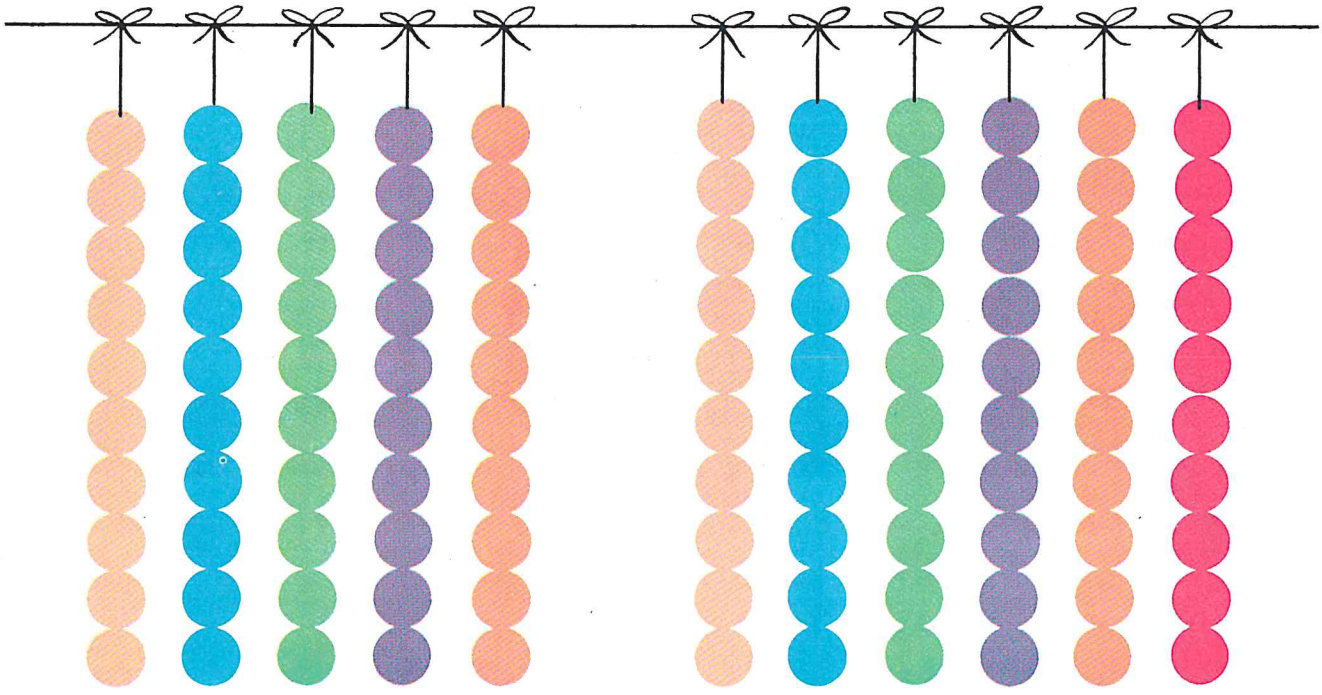


1 ten
10

2 tens
20

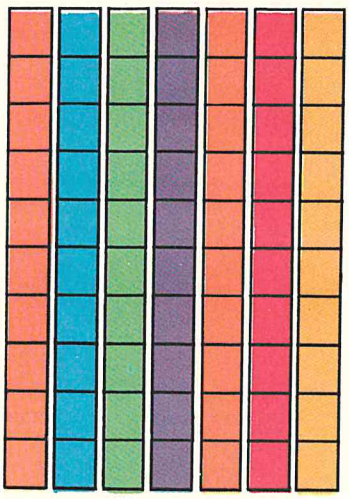
___ tens
30

___ tens
40



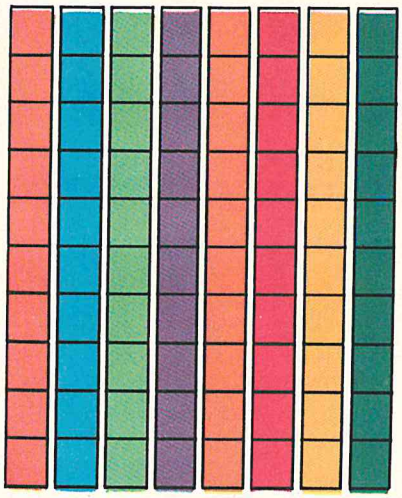
___ tens
50

___ tens
60



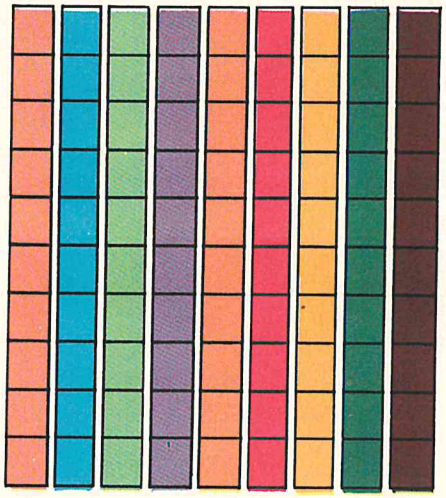
7 tens

70



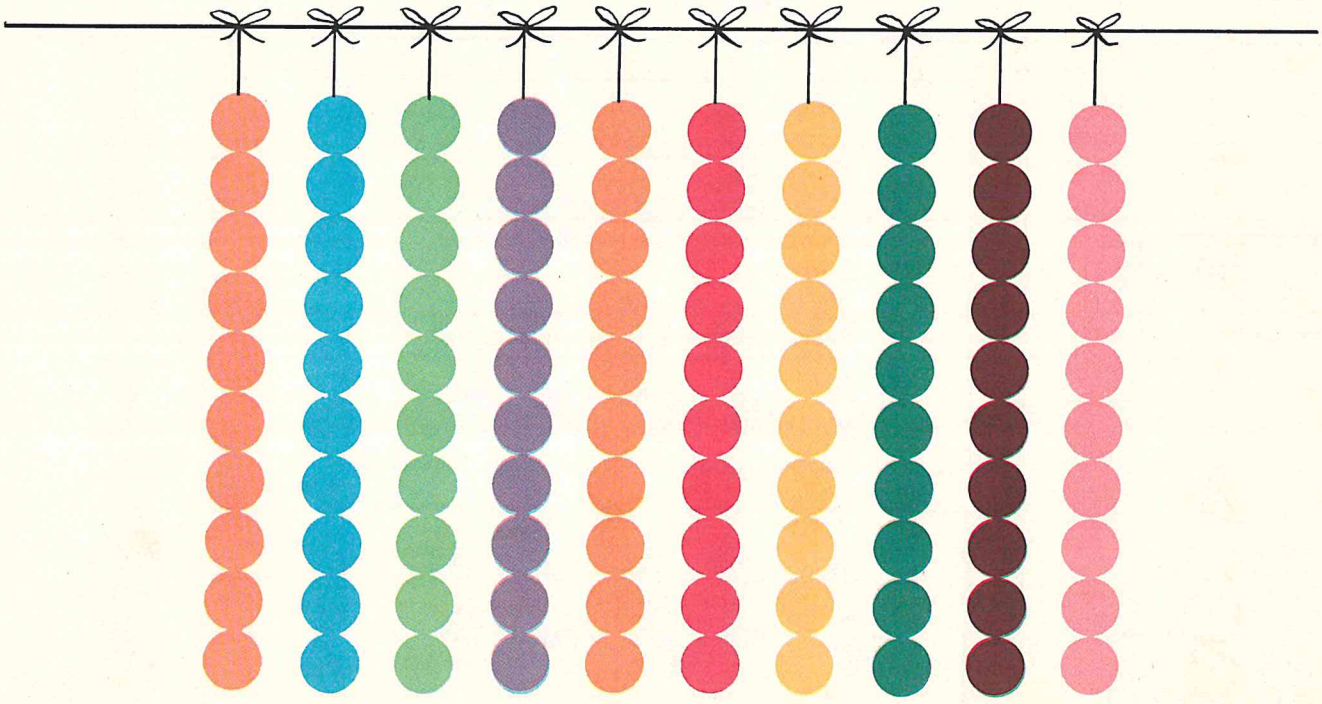
____ tens

80



____ tens

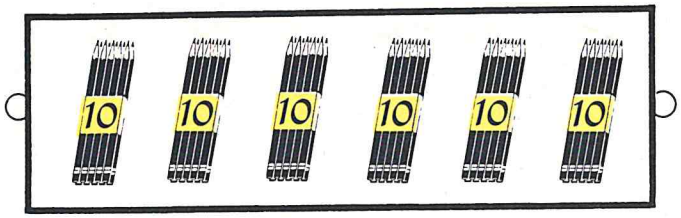
90



____ tens

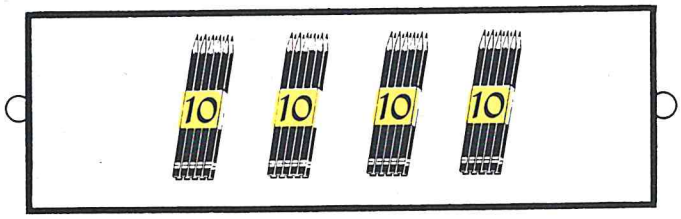
100

4 tens



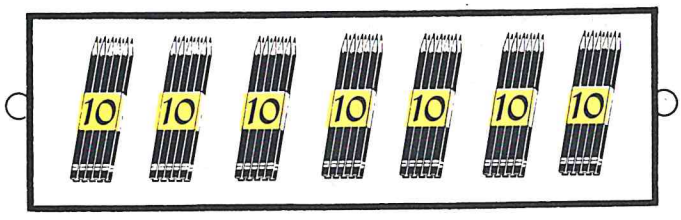
60

6 tens



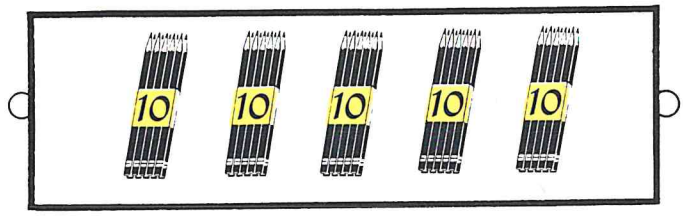
70

7 tens



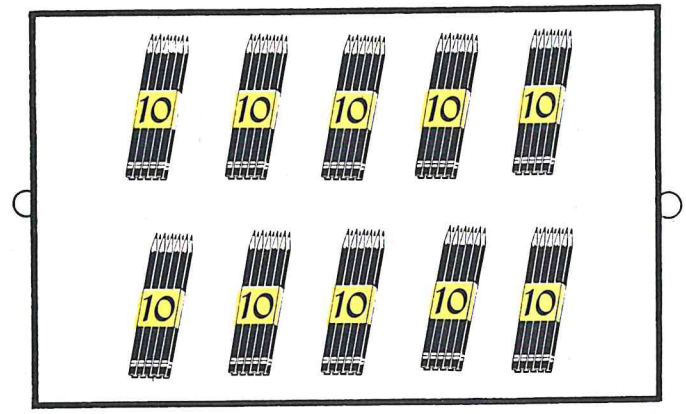
40

5 tens



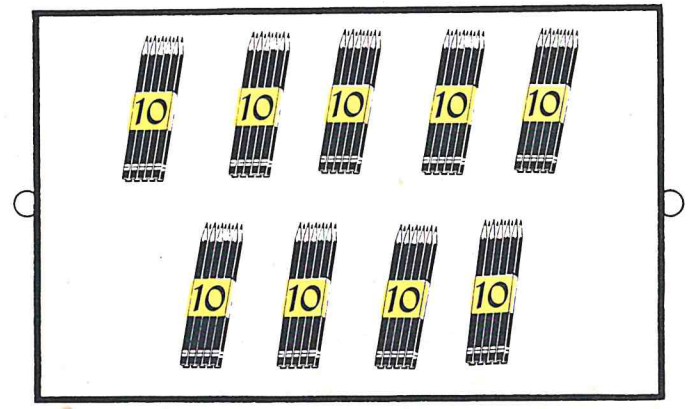
50

9 tens



90

10 tens



100

4 dimes

30¢

3 dimes

40¢

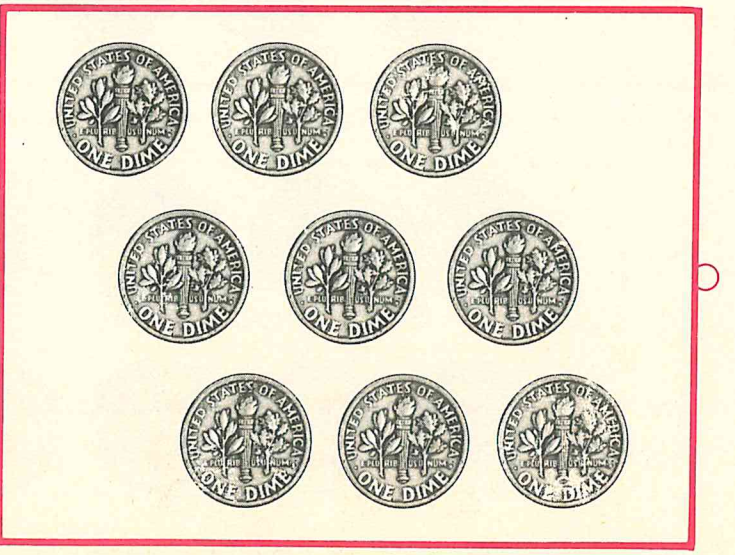
8 dimes

70¢

7 dimes

90¢

9 dimes

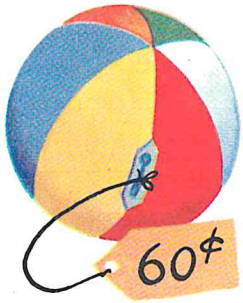


80¢

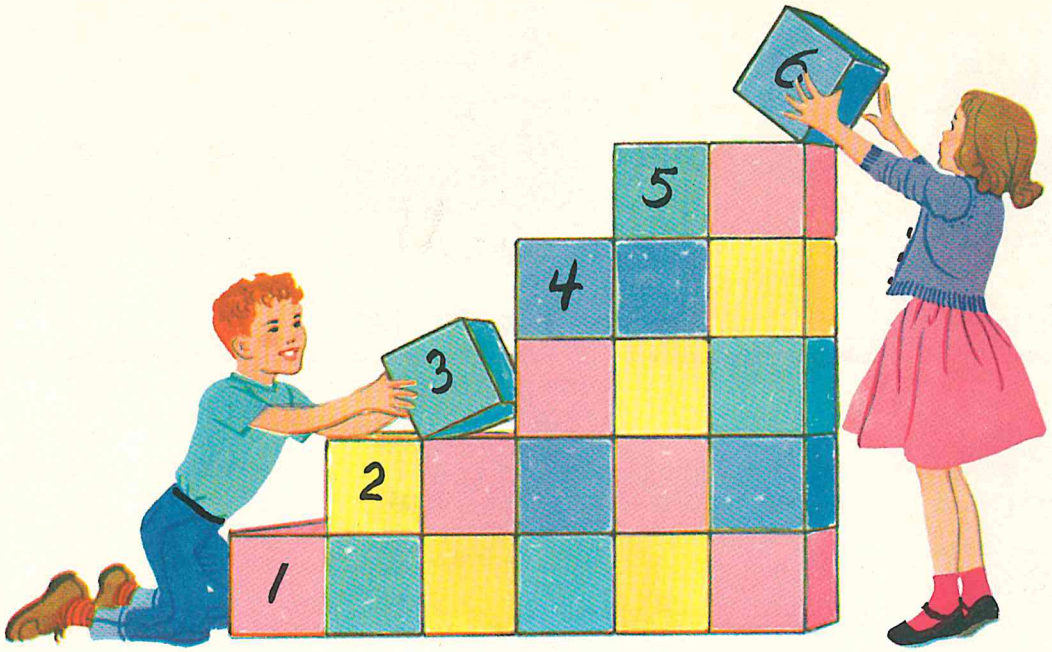
50¢

30¢

40¢


60¢

70¢



1.

Which is more, 5 or 6? ____

How many more? ____

Which is less, 5 or 6? ____

How many less? ____

2.

Which is more, 4 or 5? ____

How many more? ____

Which is less, 4 or 5? ____

How many less? ____

3.

Which is more, 3 or 4? ____

How many more? ____

Which is less, 3 or 4? ____

How many less? ____

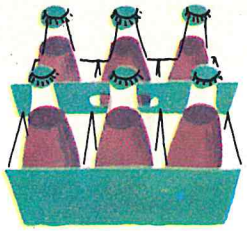
4.

Which is more, 2 or 3? ____

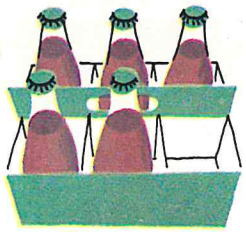
How many more? ____

Which is less, 2 or 3? ____

How many less? ____



How many? 6



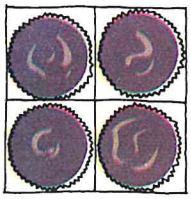
Take away 1.

How many left? ____

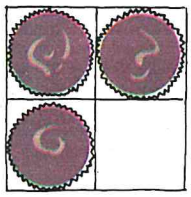
How many? 5

Take away 1.

How many left? ____

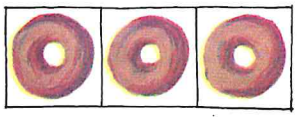


How many? ____

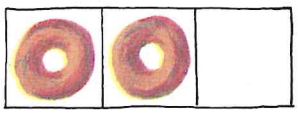


Take away 1.

How many left? ____



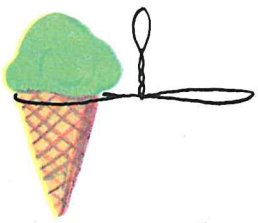
How many? ____



Take away 1.

How many left? ____

How many? ____



Take away 1.

How many left? ____

I see 6 chairs.
Take away 1 chair.

____ chairs left

I see 5 cups.
Take away 1 cup.

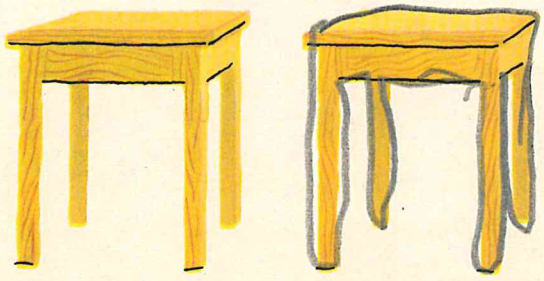
____ cups left

I see 4 books.
Take away 1 book.

____ books left

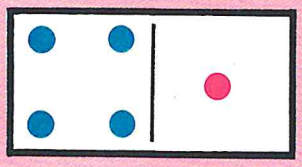
I see ____ pencils.
Take away 1 pencil.

____ pencils left



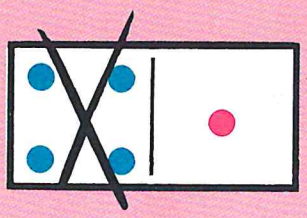
I see ____ tables.
Take away 1 table.

____ table left

1. 

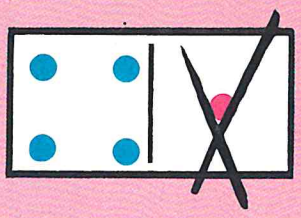
4 and 1

5 in all



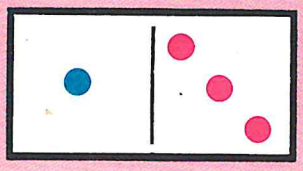
5 take away 4

1 left



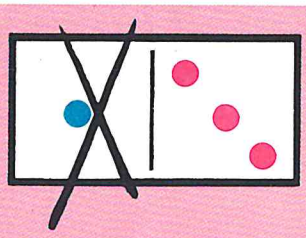
5 take away 1

4 left

2. 

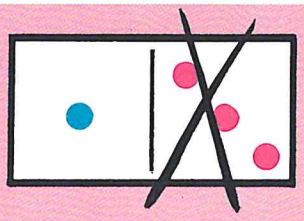
1 and 3

___ in all



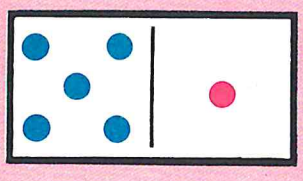
4 take away ___

___ left



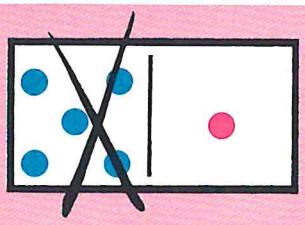
4 take away ___

___ left

3. 

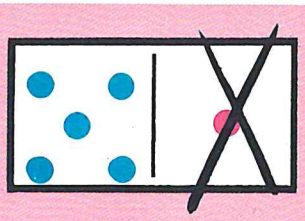
5 and 1

___ in all



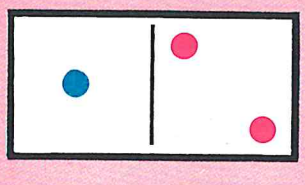
6 take away ___

___ left



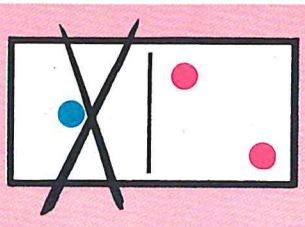
6 take away ___

___ left

4. 

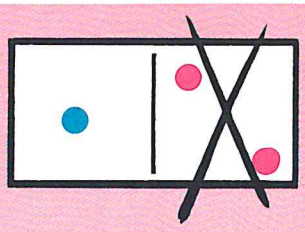
1 and 2

___ in all



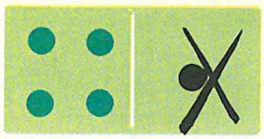
3 take away ___

___ left

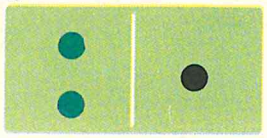


3 take away ___

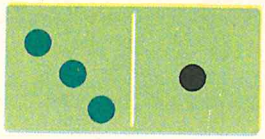
___ left

1. 

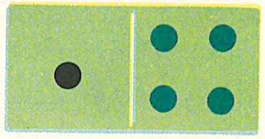
$$\begin{array}{r} 5 \\ -1 \\ \hline 4 \end{array}$$

2. 

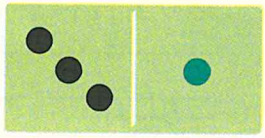
$$\begin{array}{r} 3 \\ -2 \\ \hline \end{array}$$

3. 

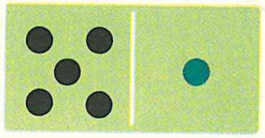
$$\begin{array}{r} 4 \\ -1 \\ \hline \end{array}$$

4. 

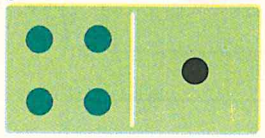
$$\begin{array}{r} 5 \\ -4 \\ \hline \end{array}$$

5. 

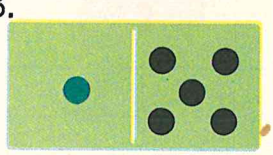
$$\begin{array}{r} 4 \\ -3 \\ \hline \end{array}$$

6. 

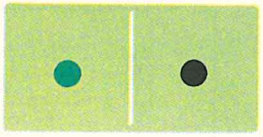
$$\begin{array}{r} 6 \\ -1 \\ \hline \end{array}$$

7. 

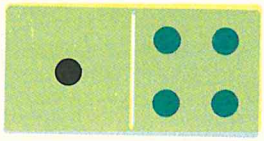
$$\begin{array}{r} 5 \\ -4 \\ \hline \end{array}$$

8. 

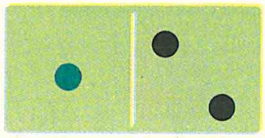
$$\begin{array}{r} 6 \\ -5 \\ \hline \end{array}$$

9. 

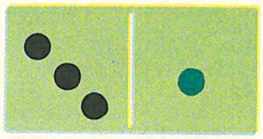
$$\begin{array}{r} 2 \\ -1 \\ \hline \end{array}$$

10. 

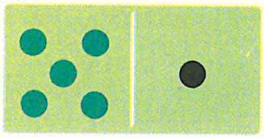
$$\begin{array}{r} 5 \\ -4 \\ \hline \end{array}$$

11. 

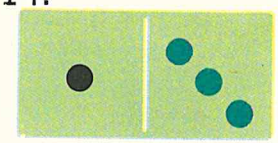
$$\begin{array}{r} 3 \\ -1 \\ \hline \end{array}$$

12. 

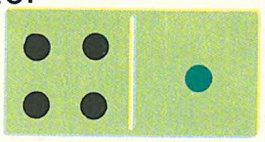
$$\begin{array}{r} 4 \\ -3 \\ \hline \end{array}$$

13. 

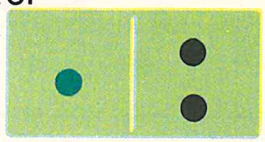
$$\begin{array}{r} 6 \\ -5 \\ \hline \end{array}$$

14. 

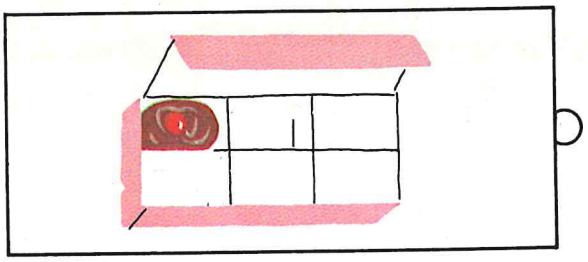
$$\begin{array}{r} 4 \\ -3 \\ \hline \end{array}$$

15. 

$$\begin{array}{r} 5 \\ -4 \\ \hline \end{array}$$

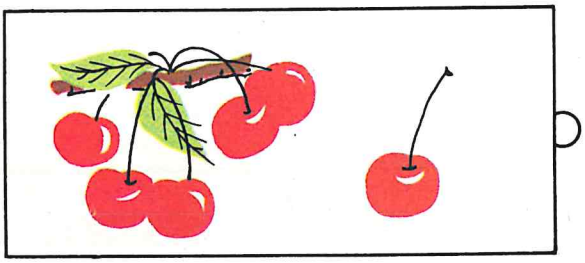
16. 

$$\begin{array}{r} 3 \\ -2 \\ \hline \end{array}$$



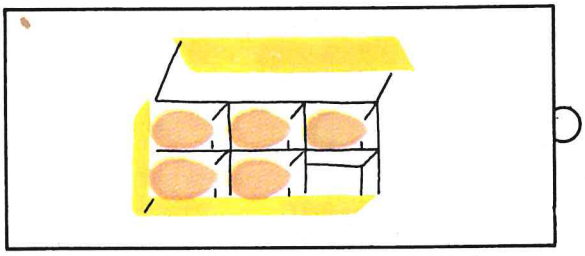
$$\begin{array}{r} 5 \\ +\,1 \\ \hline \end{array}$$

6 in all



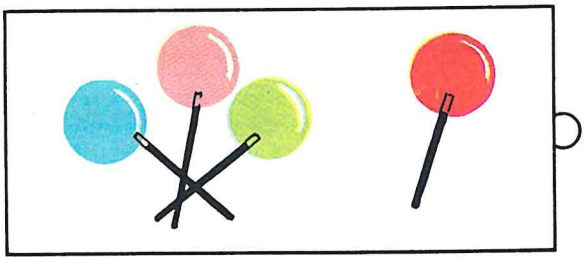
$$\begin{array}{r} 6 \\ -\,5 \\ \hline \end{array}$$

1 left



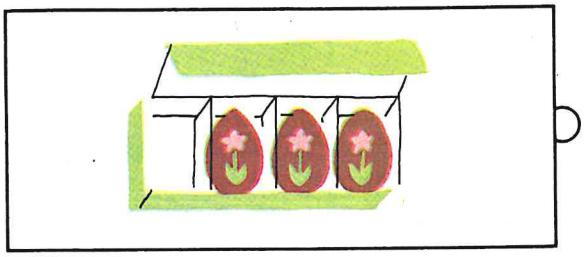
$$\begin{array}{r} 6 \\ -\,1 \\ \hline \end{array}$$

5 left



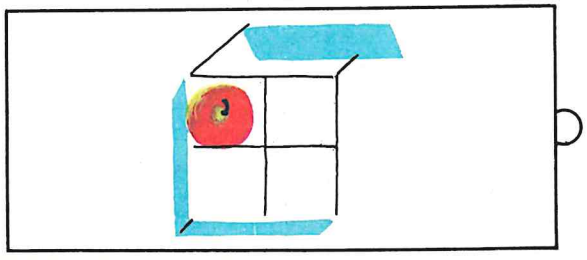
$$\begin{array}{r} 3 \\ +\,1 \\ \hline \end{array}$$

4 in all



$$\begin{array}{r} 4 \\ -\,3 \\ \hline \end{array}$$

1 left



$$\begin{array}{r} 4 \\ -\,1 \\ \hline \end{array}$$

3 left

1.

$$\begin{array}{r} 2 \\ +1 \\ \hline 3 \end{array} \qquad \begin{array}{r} 1 \\ +2 \\ \hline \end{array}$$

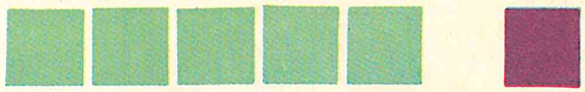
2.

$$\begin{array}{r} 3 \\ +1 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ +3 \\ \hline \end{array}$$

3.

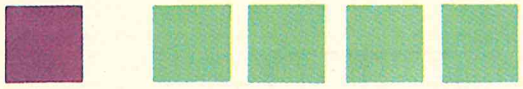
$$\begin{array}{r} 3 \\ +2 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ +3 \\ \hline \end{array}$$

4.



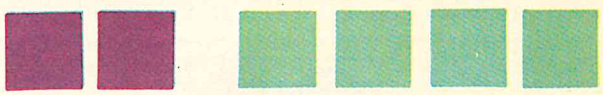
$$\begin{array}{r} 5 \\ +1 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ +5 \\ \hline \end{array}$$

5.



$$\begin{array}{r} 1 \\ +4 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ +1 \\ \hline \end{array}$$

6.



$$\begin{array}{r} 2 \\ +4 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ +2 \\ \hline \end{array}$$

7.

$$\begin{array}{r} 1 \\ +2 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ +1 \\ \hline \end{array}$$

8.

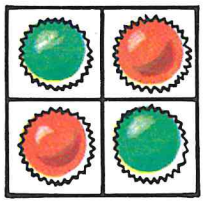
$$\begin{array}{r} 2 \\ +2 \\ \hline \end{array}$$

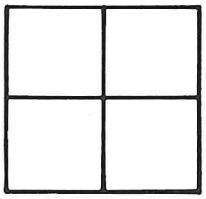
9.

$$\begin{array}{r} 3 \\ +3 \\ \hline \end{array}$$

10.

$$\begin{array}{r} 1 \\ +1 \\ \hline \end{array}$$

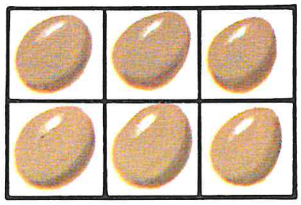


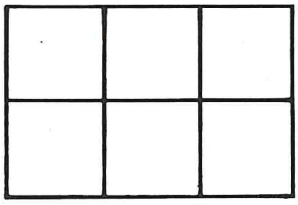


$$\begin{array}{r} 4 \\ -4 \\ \hline 0 \end{array}$$

Take away 4

How many? ____ How many left? 0

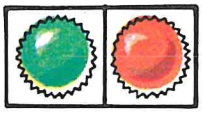


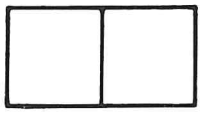


$$\begin{array}{r} 6 \\ -6 \\ \hline \end{array}$$

Take away 6

How many? ____ How many left? ____

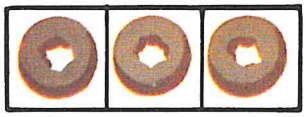


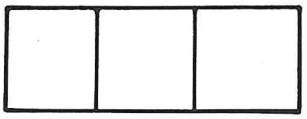


$$\begin{array}{r} 2 \\ -2 \\ \hline \end{array}$$

Take away 2

How many? ____ How many left? ____

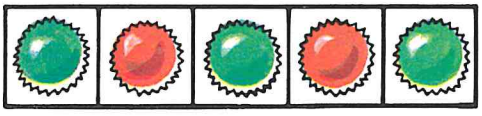


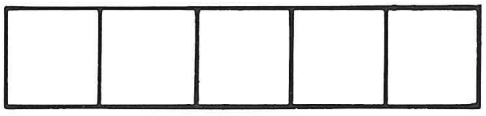


$$\begin{array}{r} 3 \\ -3 \\ \hline \end{array}$$

Take away 3

How many? ____ How many left? ____

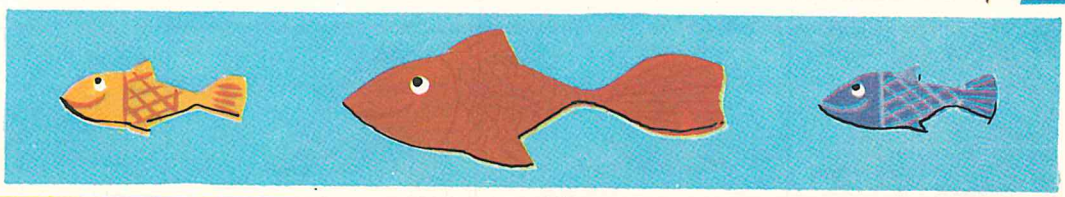


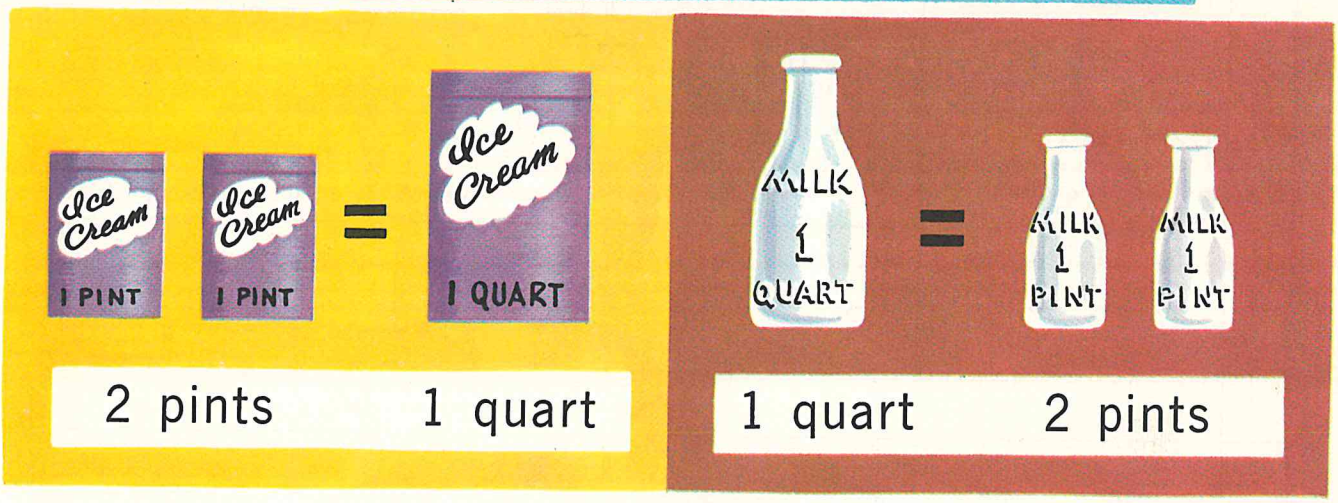


$$\begin{array}{r} 5 \\ -5 \\ \hline \end{array}$$

Take away 5

How many? ____ How many left? ____

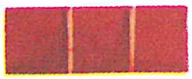
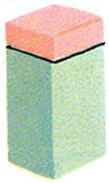
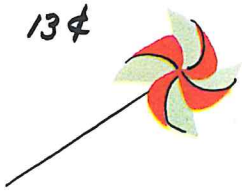
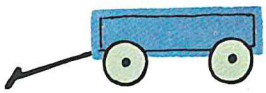
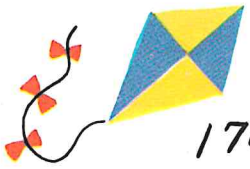
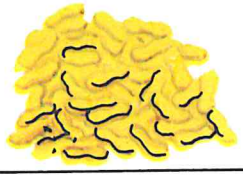
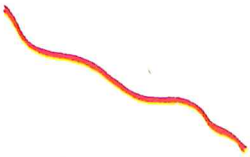
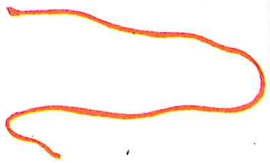
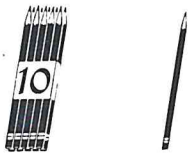




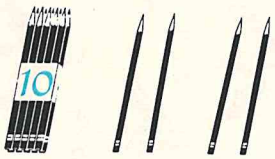
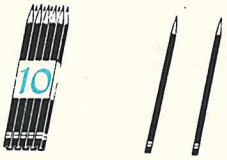
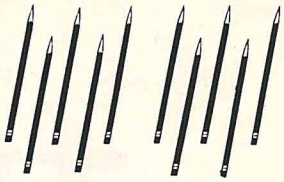
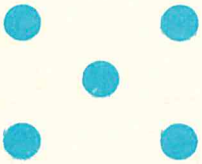
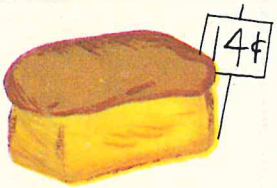
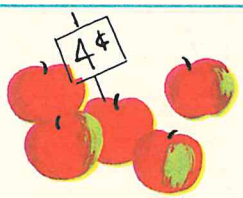
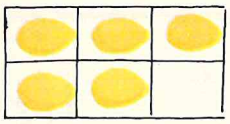
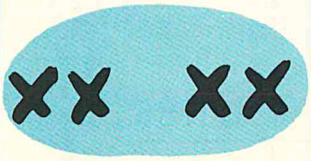
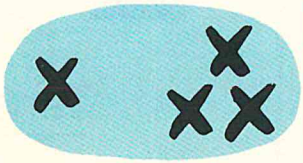
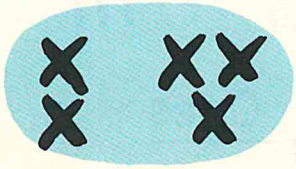
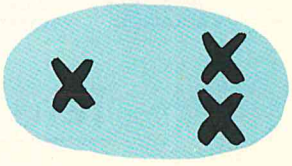
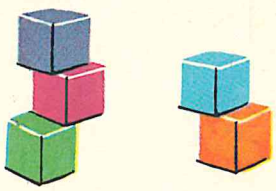
Which is less?

1 pint	1 quart
1 quart	3 pints
2 quarts	2 pints
3 pints	2 quarts

Test 3

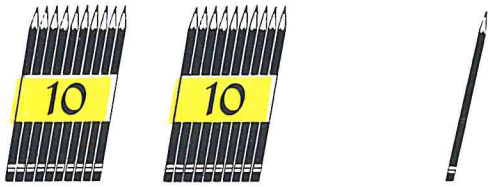
1.				
2.				
3.	9¢	 13¢	 20¢	 17¢
4.				
5.				
6.				
7.				
8.				

Test 4

1.	9	14	15	12
2.				
3.		five	four	two
4.	13 ___ 15	16	12	14
5.				
6.		$\begin{array}{r} 6 \\ -1 \\ \hline 5 \end{array}$	$\begin{array}{r} 5 \\ -1 \\ \hline 4 \end{array}$	$\begin{array}{r} 4 \\ -1 \\ \hline 3 \end{array}$
7.				
8.		$\begin{array}{r} 3 \\ +1 \\ \hline 4 \end{array}$	$\begin{array}{r} 3 \\ +2 \\ \hline 5 \end{array}$	$\begin{array}{r} 2 \\ +1 \\ \hline 3 \end{array}$

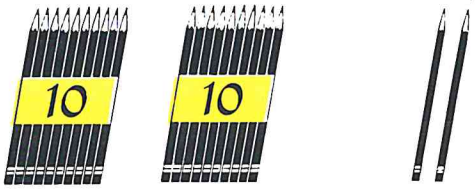
Tens	Ones
2	0

2 0



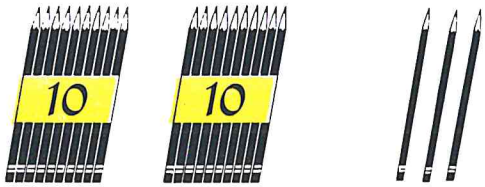
Tens	Ones
2	1

2 1



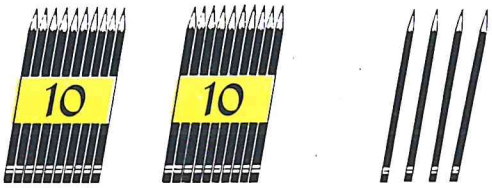
Tens	Ones

2 2



Tens	Ones

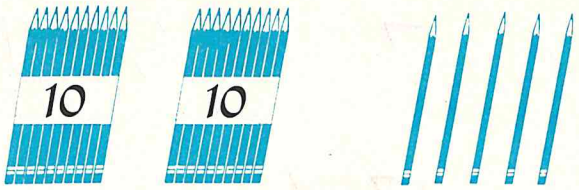
2 3



Tens	Ones

2 4

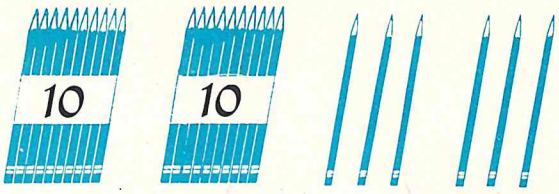
1.



Tens	Ones
2	5

25

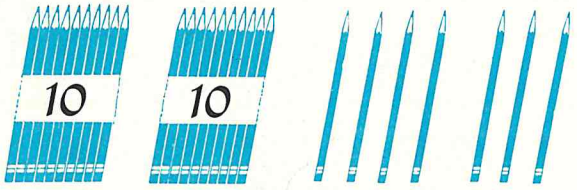
2.



Tens	Ones

26

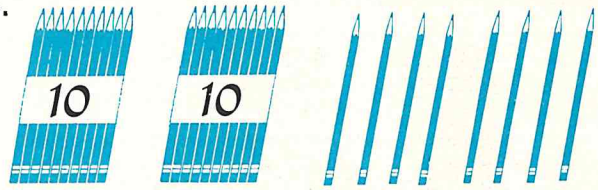
3.



Tens	Ones

27

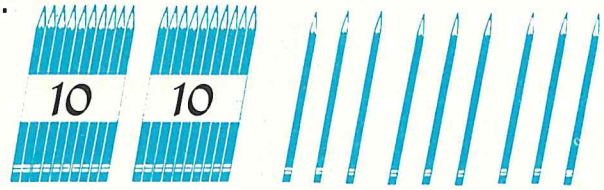
4.



Tens	Ones

28

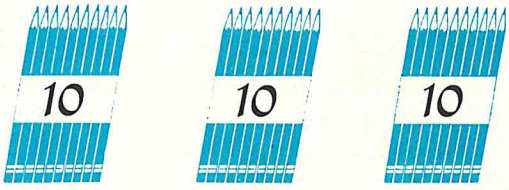
5.



Tens	Ones

29

6.



Tens	Ones

30

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

1					6				10
11			14				18		
				25					

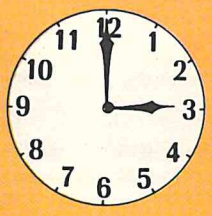
16	17	___	19	___	21	___	20	21
21	22	___	24	___	26	___	23	24
18	19	___	18	___	20	___	27	28
28	29	___	27	___	29	___	29	30

Month _____ Year _____

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

1.

____ o'clock

2. 

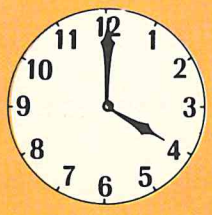
____ o'clock

3.

____ o'clock

4.

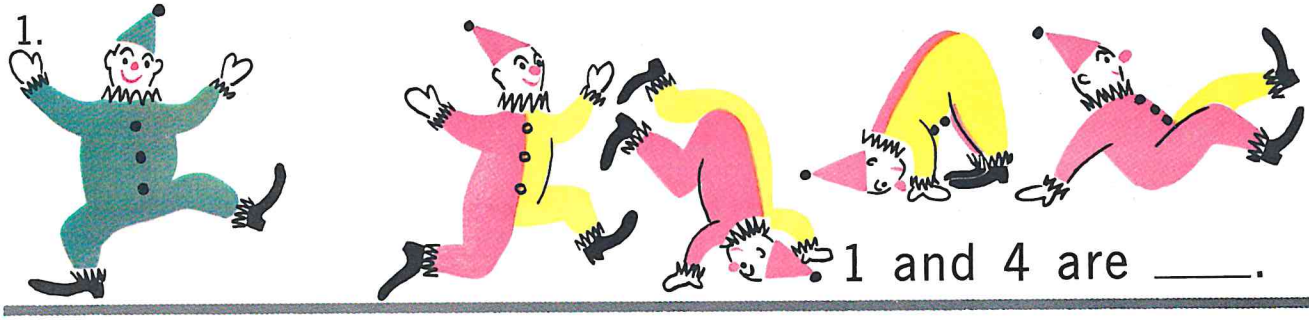
____ o'clock

5. 

____ o'clock

6.

____ o'clock

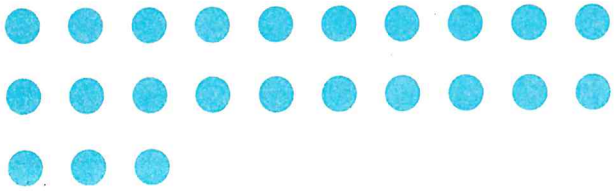
1. 

1 and 4 are ____.

2.

Take 1 from 6.

How many left? ____

3. 

2 tens 3 ones

How many? ____

4. Write the numbers.

three ____ five ____ two ____

5.

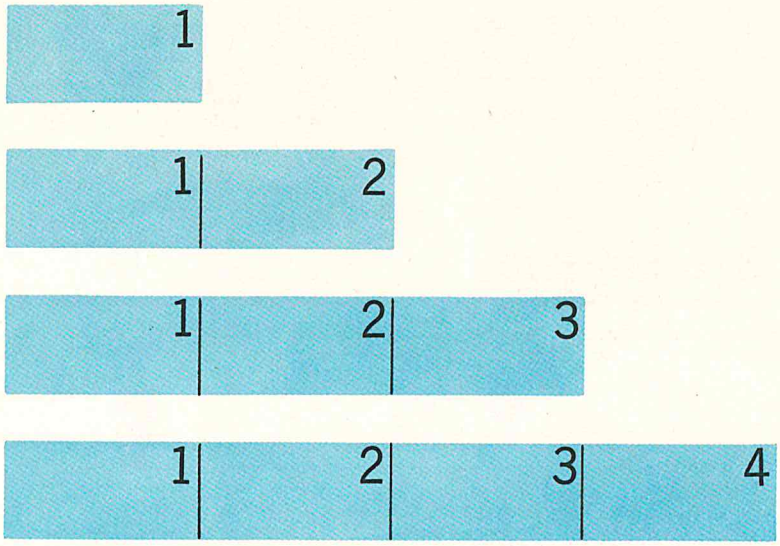
____ ¢

6.

____ ¢

7.

____ ¢



____ inch

____ inches

____ inches

____ inches

1.

Which is more, 3 or 4? ____

How much more? ____

Which is less, 3 or 4? ____

How much less? ____

2.

Which is more, 2 or 4? ____

How much more? ____

Which is less, 2 or 4? ____

How much less? ____

3.

Which is more, 1 or 4? ____

How much more? ____

Which is less, 1 or 4? ____

How much less? ____

4.

Which is more, 1 or 3? ____

How much more? ____

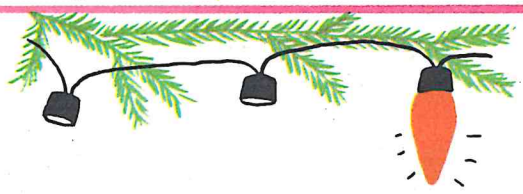
Which is less, 1 or 3? ____

How much less? ____

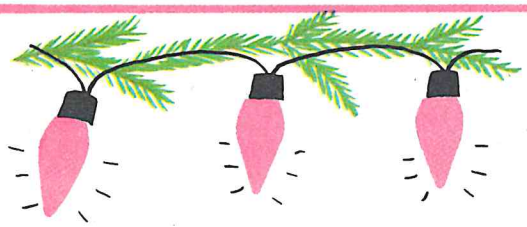
1.

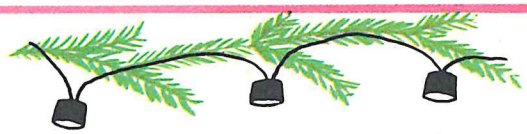
3 lights 3 take away 1 2 left

2.

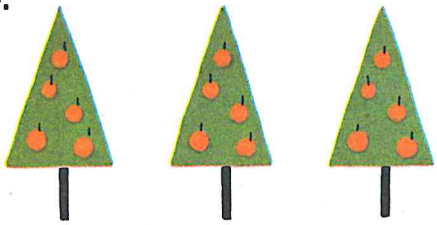


___ lights 3 take away 2 ___ left

3. 



___ lights 3 take away 3 ___ left

4. 

3 trees 3

Take away 1 tree. −1

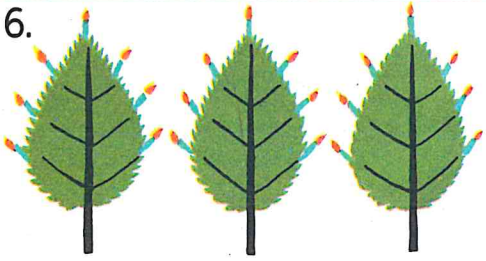
___ trees left

5.

3 trees 3

Take away 2 trees. −2

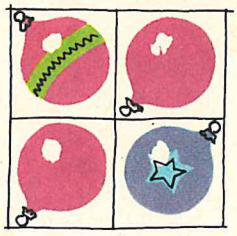
___ trees left

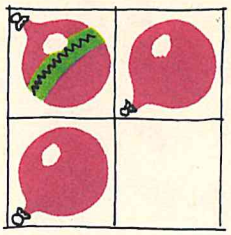
6. 

3 trees 3

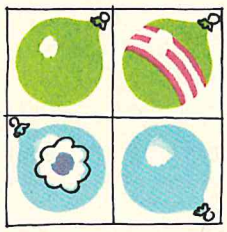
Take away 3 trees. −3

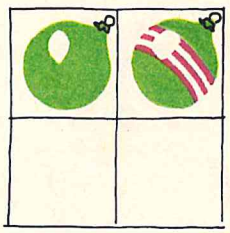
___ trees left



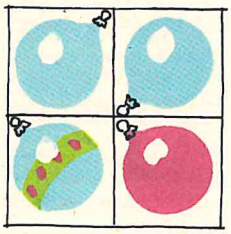


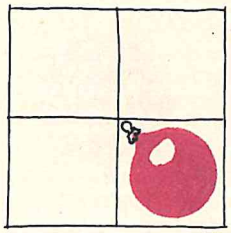
4 balls 4 take away 1. ____ left.



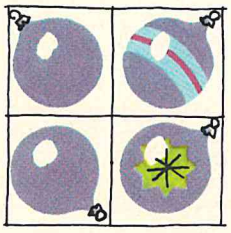


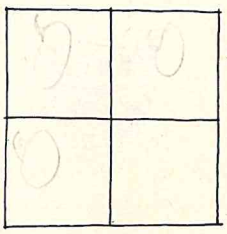
4 balls 4 take away 2. ____ left.



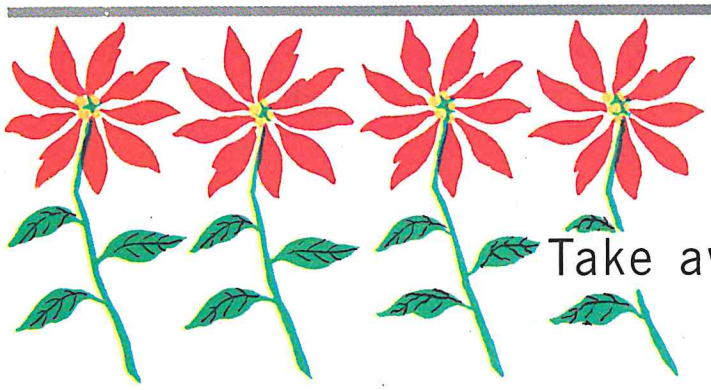


4 balls 4 take away 3. ____ left.





4 balls 4 take away 4. ____ left.



4 flowers

Take away 1 flower

____flowers left

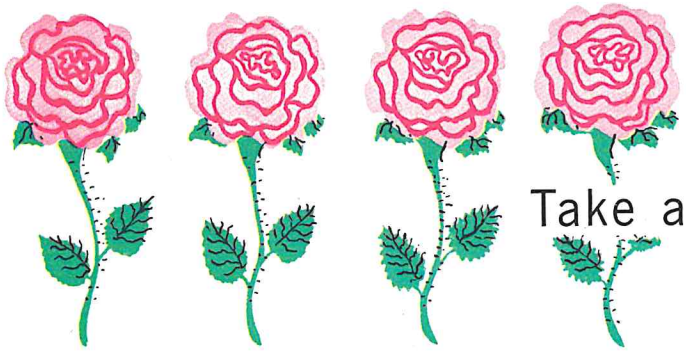
$$\begin{array}{r} 4 \\ -\,1 \\ \hline \end{array}$$

4 flowers

Take away 2 flowers

____flowers left

$$\begin{array}{r} 4 \\ -\,2 \\ \hline \end{array}$$

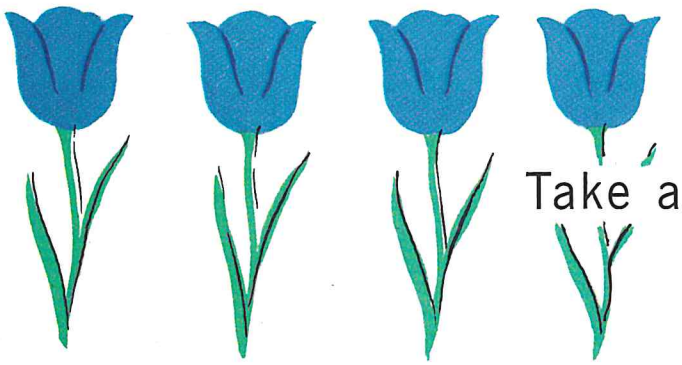


4 flowers

Take away 3 flowers

____flower left

$$\begin{array}{r} 4 \\ -\,3 \\ \hline \end{array}$$



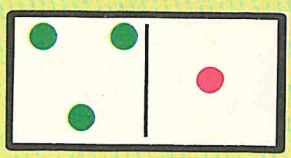
4 flowers

Take away 4 flowers

____flowers left

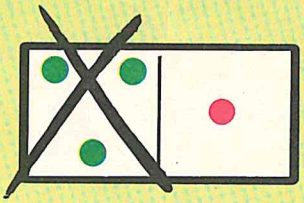
$$\begin{array}{r} 4 \\ -\,4 \\ \hline \end{array}$$

1.



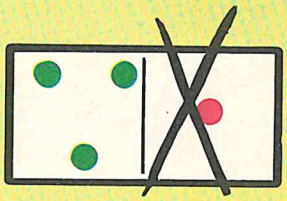
3 and 1

4 in all



4 take away 3

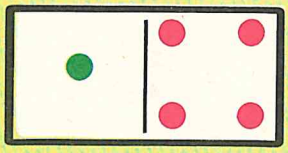
1 left



4 take away 1

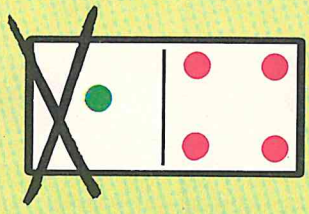
3 left

2.



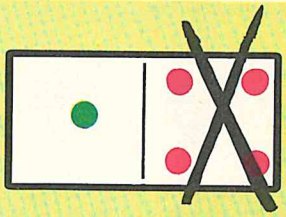
1 and 4

____ in all



5 take away ____

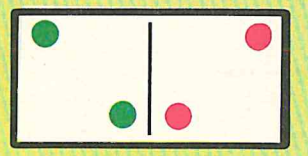
____ left



5 take away ____

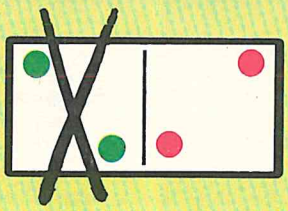
____ left

3.



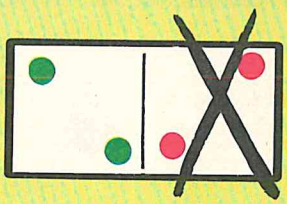
2 and 2

____ in all



4 take away ____

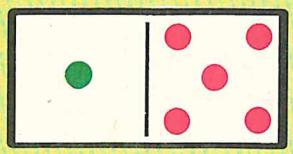
____ left



4 take away ____

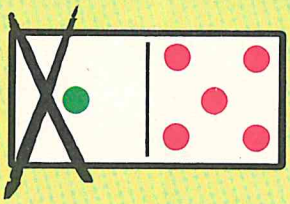
____ left

4.



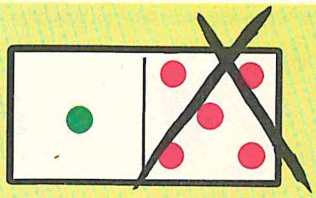
1 and 5

____ in all



6 take away ____

____ left



6 take away ____

____ left

1.

Take 1 from 3.

How many left?

$$\begin{array}{r} 3 \\ -1 \\ \hline 2 \end{array}$$

2.

Take 1 from 4.

How many left?

$$\begin{array}{r} 4 \\ -1 \\ \hline \end{array}$$

3.

Take 2 from 4.

How many left?

$$\begin{array}{r} 4 \\ -2 \\ \hline \end{array}$$

4.

Take 2 from 3.

How many left?

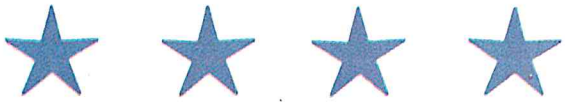
$$\begin{array}{r} 3 \\ -2 \\ \hline \end{array}$$

5.

Take 2 from 2.

How many left?

$$\begin{array}{r} 2 \\ -2 \\ \hline \end{array}$$

6. 

Take 4 from 4.

How many left?

$$\begin{array}{r} 4 \\ -4 \\ \hline \end{array}$$

7.

Take 3 from 3.

How many left?

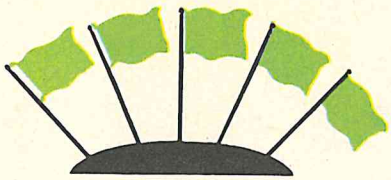
$$\begin{array}{r} 3 \\ -3 \\ \hline \end{array}$$

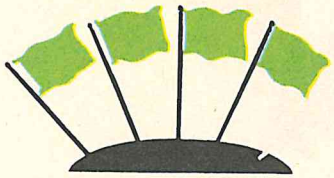
8.

Take 3 from 4.

How many left?

$$\begin{array}{r} 4 \\ -3 \\ \hline \end{array}$$



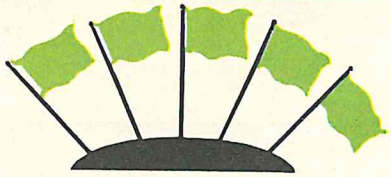


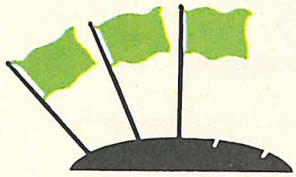
5 take away 1

$$\begin{array}{r} 5 \\ -1 \\ \hline 4 \end{array}$$

How many? 5

4 left



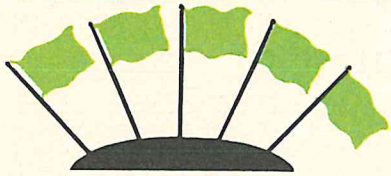


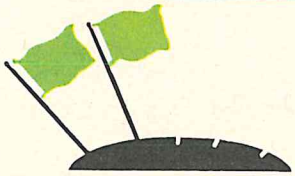
5 take away 2

$$\begin{array}{r} 5 \\ -2 \\ \hline \end{array}$$

How many? ____

____ left



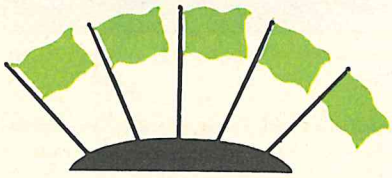


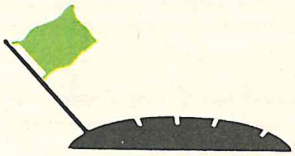
5 take away 3

$$\begin{array}{r} 5 \\ -3 \\ \hline \end{array}$$

How many? ____

____ left



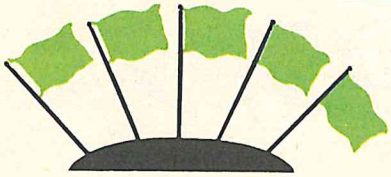


5 take away 4

$$\begin{array}{r} 5 \\ -4 \\ \hline \end{array}$$

How many? ____

____ left



5 take away 5

$$\begin{array}{r} 5 \\ -5 \\ \hline \end{array}$$

How many? ____

____ left

1.

5 cans
2 down

$$\begin{array}{r} 5 \\ -2 \\ \hline \end{array}$$

____ up

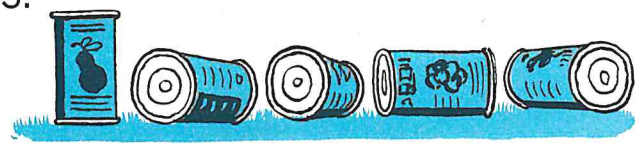
2.

5 cans
3 down

$$\begin{array}{r} 5 \\ -3 \\ \hline \end{array}$$

____ up

3.



5 cans
4 down

$$\begin{array}{r} 5 \\ -4 \\ \hline \end{array}$$

____ up

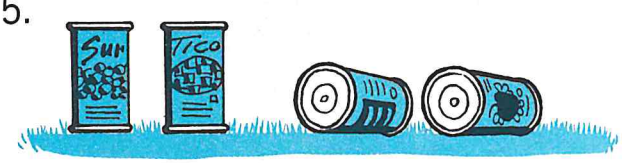
4.

5 cans
5 down

$$\begin{array}{r} 5 \\ -5 \\ \hline \end{array}$$

____ up

5.



4 cans
2 down

$$\begin{array}{r} 4 \\ -2 \\ \hline \end{array}$$

____ up

6.

4 cans
4 down

$$\begin{array}{r} 4 \\ -4 \\ \hline \end{array}$$

____ up

Take 1 from 5.

How many left?

$$\begin{array}{r} 5 \\ -1 \\ \hline \end{array}$$

Take 3 from 5.

How many left?

$$\begin{array}{r} 5 \\ -3 \\ \hline \end{array}$$

Take 1 from 3.

How many left?

$$\begin{array}{r} 3 \\ -1 \\ \hline \end{array}$$

Take 3 from 4.

How many left?

$$\begin{array}{r} 4 \\ -3 \\ \hline \end{array}$$

Take 2 from 4.

How many left?

$$\begin{array}{r} 4 \\ -2 \\ \hline \end{array}$$

Take 2 from 3.

How many left?

$$\begin{array}{r} 3 \\ -2 \\ \hline \end{array}$$

Take 1 from 2.

How many left?

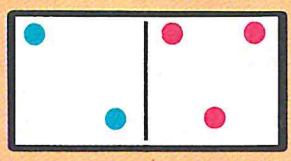
$$\begin{array}{r} 2 \\ -1 \\ \hline \end{array}$$

Take 2 from 5.

How many left?

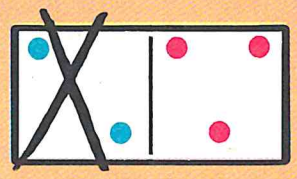
$$\begin{array}{r} 5 \\ -2 \\ \hline \end{array}$$

1.



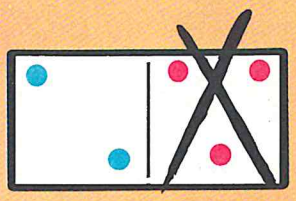
2 and 3

____ in all



5 take away 2

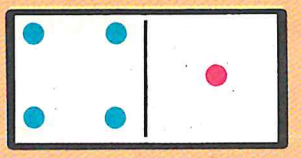
is ____.



5 take away 3

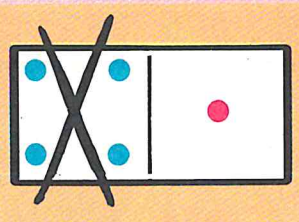
is ____.

2.



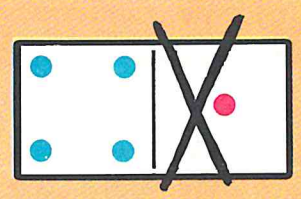
4 and 1

____ in all



5 take away 4

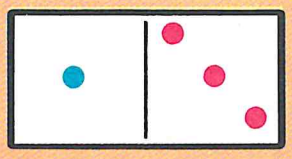
is ____.



5 take away 1

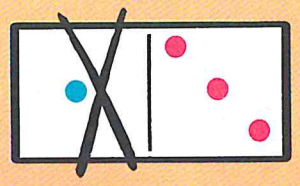
is ____.

3.



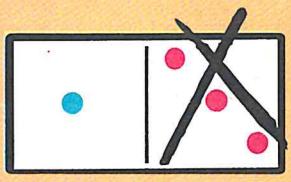
1 and 3

____ in all



4 take away 1

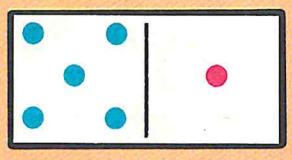
is ____.



4 take away 3

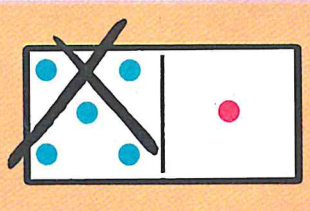
is ____.

4.



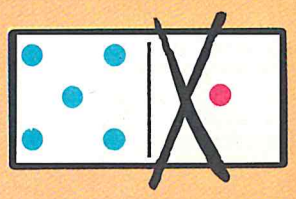
5 and 1

____ in all



6 take away 5

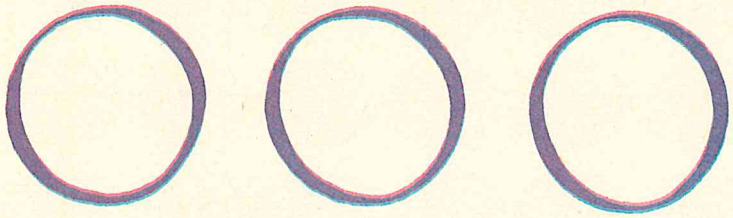
is ____.



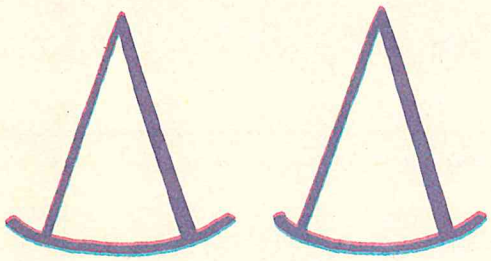
6 take away 1

is ____.

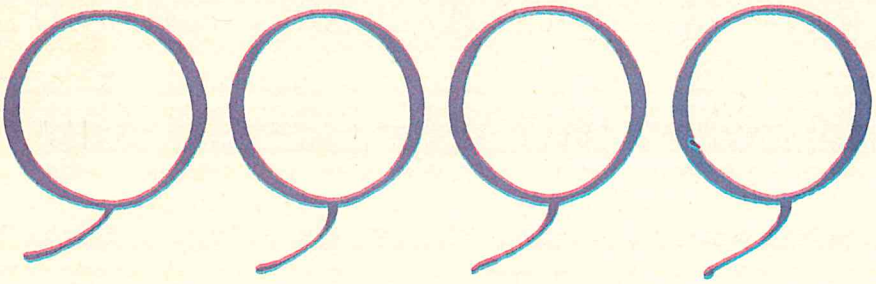
Draw more to make 5.



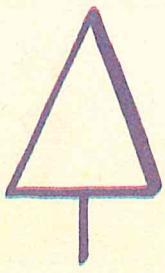
3 and ____ are 5.



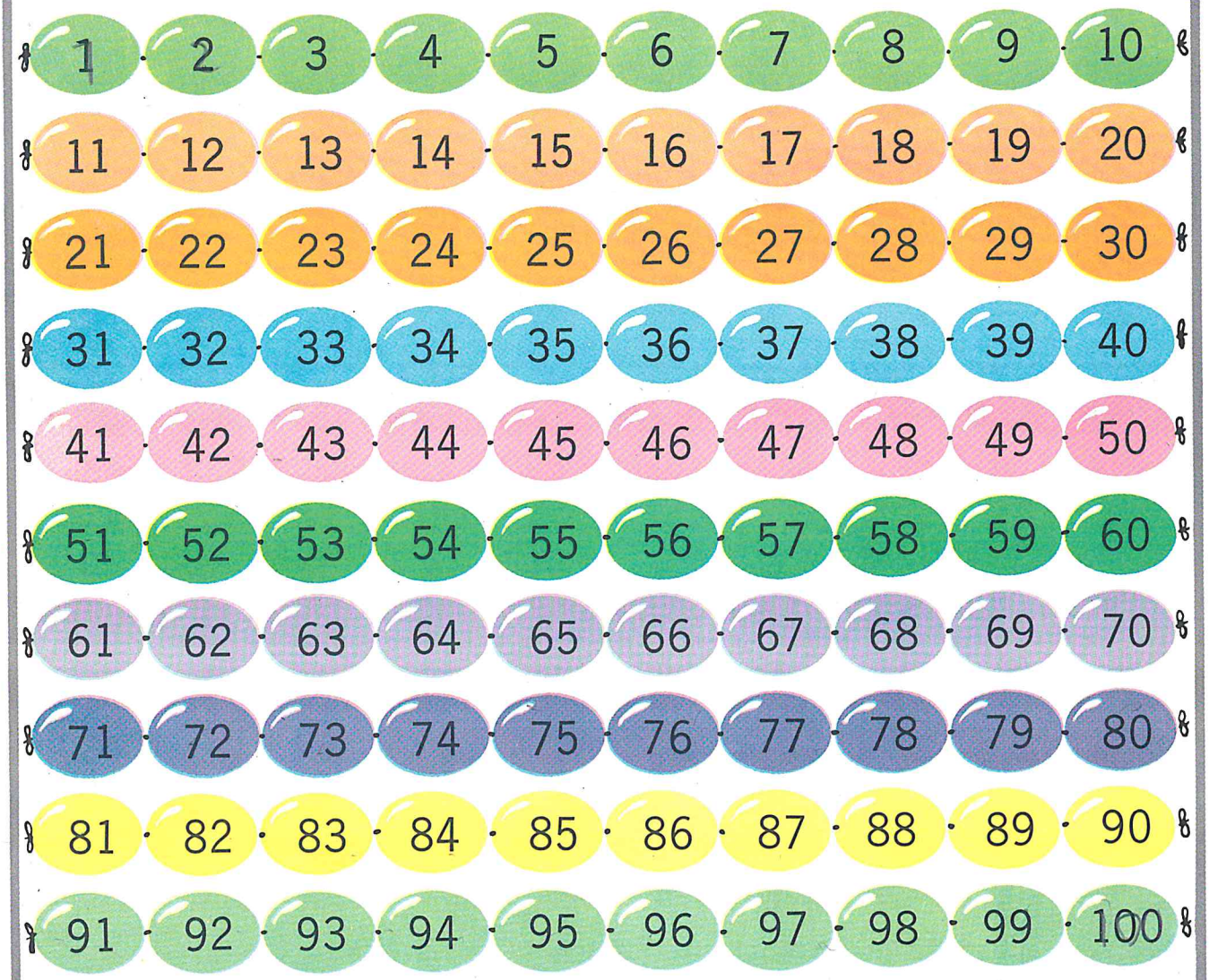
2 and ____ are 5.



4 and ____ are 5.



1 and ____ are 5.



4 tens 6 ones	64	30 and 5	35
6 tens 4 ones	46	50 and 3	53
7 tens 3 ones	73	40 and 7	74
3 tens 7 ones	37	70 and 4	47
2 tens 8 ones	82	90 and 5	59
8 tens 2 ones	28	50 and 9	95

1	2	3		5		7		9	10
11	12		14		16	17	18		20
	22	23		25	26		28	29	
31		33	34		36	37		39	40
41		43		45	46		48		50
52	52		54	55			58	59	
61	62			65			68	69	
71		73	74		76				80
	82		84	85					90
91		93			96			99	100

Count by tens.

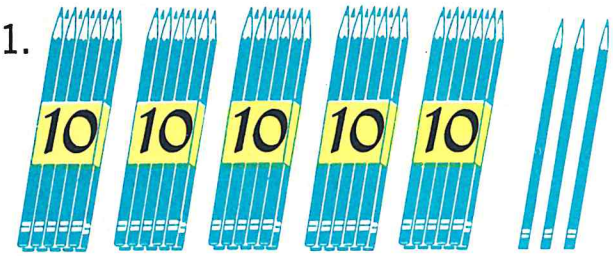
10 20 ____ ____ 50 ____ 70 ____ ____ 100

Write the number.

2 tens are ____. 5 tens are ____. 8 tens are ____.

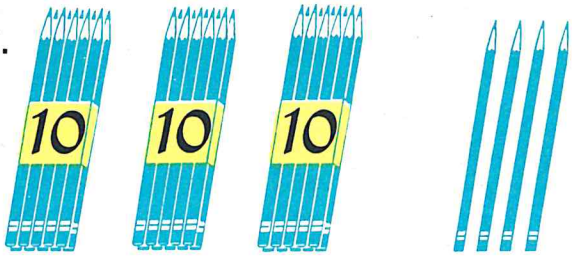
4 tens are ____. 7 tens are ____. 9 tens are ____.

3 tens are ____. 6 tens are ____. 10 tens are ____.

1. 

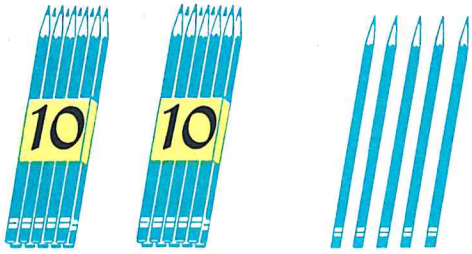
5 tens 3 ones

In all 53

2. 

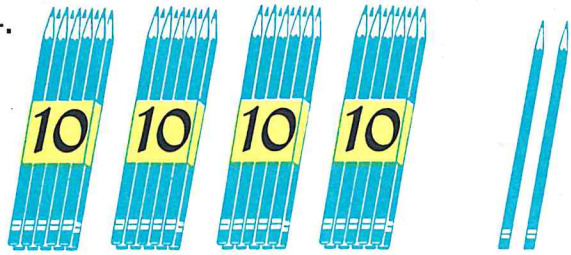
3 tens 4 ones

In all ____

3. 

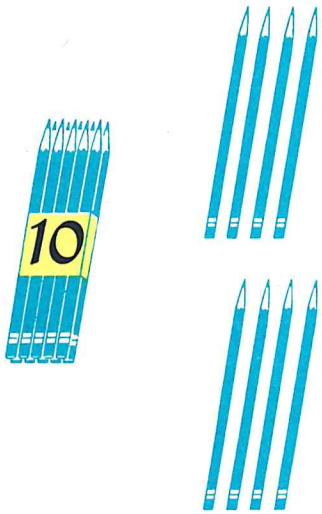
____ tens ____ ones

In all ____

4. 

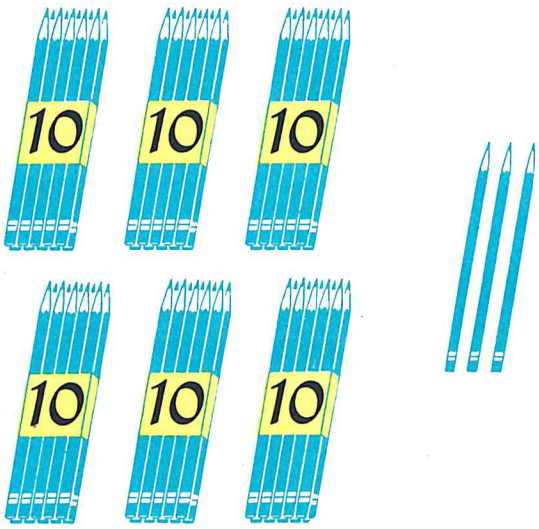
____ tens ____ ones

In all ____

5. 

____ ten ____ ones

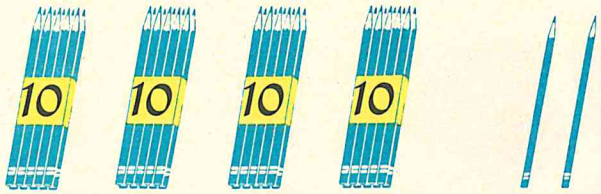
In all ____

6. 

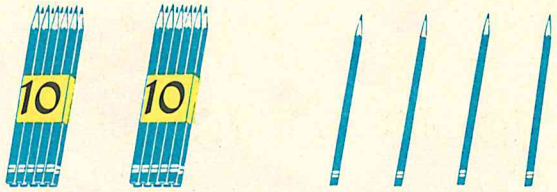
____ tens ____ ones

In all ____

1.

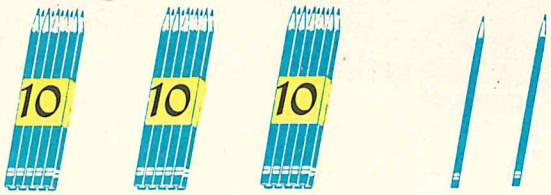


42 is 4 tens 2 ones.

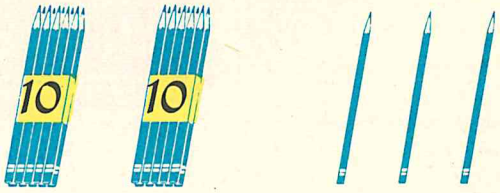


24 is 2 tens 4 ones.

2.

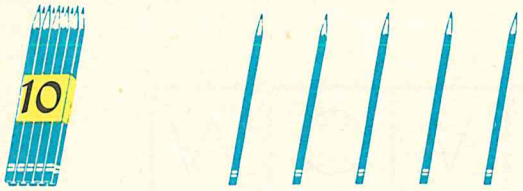


32 is ____ tens ____ ones.

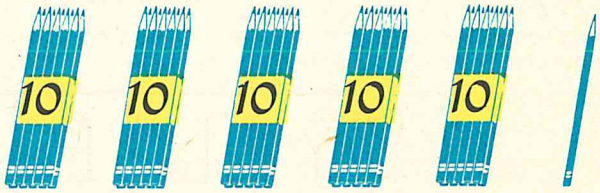


23 is ____ tens ____ ones.

3.



15 is ____ ten ____ ones.



51 is ____ tens ____ one.

27 is ____ tens ____ ones.

27 is 20 and ____.

46 is ____ tens ____ ones.

46 is ____ and 6.

56 is ____ tens ____ ones.

56 is 50 and ____.

93 is ____ tens ____ ones.

93 is ____ and 3.

38 is ____ tens ____ ones.

38 is 30 and ____.

39 is ____ tens ____ ones.

39 is ____ and 9.

W	
62	26

21	54	45	26

12	54	33

Y	L	E	U	V	O	W
12	21	26	33	45	54	62

____ ¢

____ ¢

____ ¢

1.

UNITED STATES OF AMERICA
ONE DIME

____ ¢

2.

UNITED STATES OF AMERICA
ONE DIME

____ ¢

3.

UNITED STATES OF AMERICA
ONE DIME
ONE CENT
UNITED STATES OF AMERICA

____ ¢

4.

UNITED STATES OF AMERICA
ONE DIME
ONE CENT
UNITED STATES OF AMERICA

____ ¢

5.

UNITED STATES OF AMERICA
ONE DIME
ONE CENT
UNITED STATES OF AMERICA

____ ¢

6.

UNITED STATES OF AMERICA
ONE DIME
ONE CENT
UNITED STATES OF AMERICA

____ ¢

7.

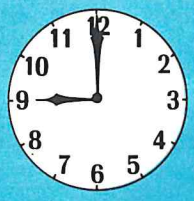
UNITED STATES OF AMERICA
ONE DIME
ONE CENT
UNITED STATES OF AMERICA

____ ¢

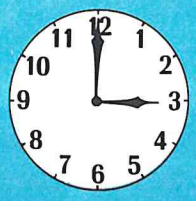
Which is more?

50 inches	40 inches
12 inches	21 inches
1 pint	2 quarts
1 quart	1 pint

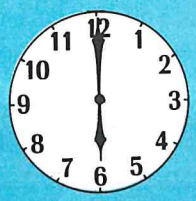
19¢	91¢
10¢	20¢
83¢	38¢
79¢	97¢



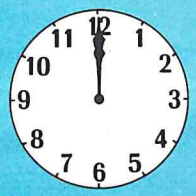
____ o'clock



____ o'clock



____ o'clock

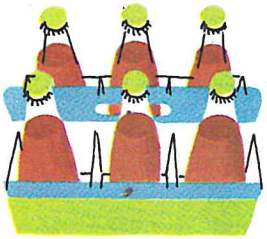


____ o'clock

Month Year

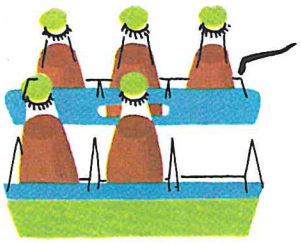
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

1.



How many? ____

2.

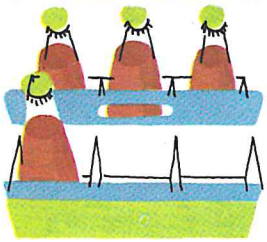


$\begin{array}{r} 6 \\ -1 \\ \hline \end{array}$

6 take away 1

____ left

3.

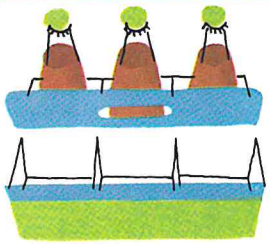


$\begin{array}{r} 6 \\ -2 \\ \hline \end{array}$

6 take away 2

____ left

4.

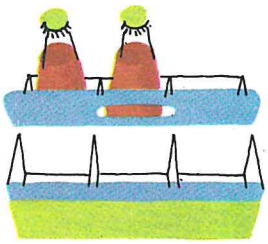


$\begin{array}{r} 6 \\ -3 \\ \hline \end{array}$

6 take away 3

____ left

5.

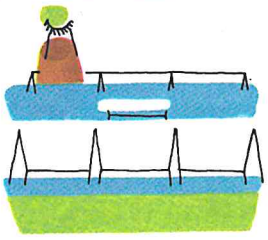


$\begin{array}{r} 6 \\ -4 \\ \hline \end{array}$

6 take away 4

____ left

6.



$\begin{array}{r} 6 \\ -5 \\ \hline \end{array}$

6 take away 5

____ left

Take 1 from 6. ____ left

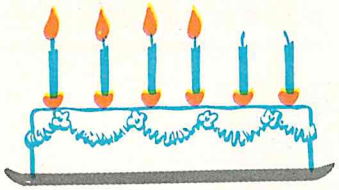
Take 3 from 6. ____ left

Take 2 from 6. ____ left

Take 4 from 6. ____ left

Take 5 from 6. ____ left

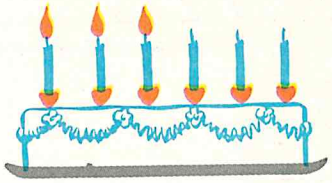
1.



6 candles
2 lights out
4 lights left

$$\begin{array}{r} 6 \\ -2 \\ \hline 4 \end{array}$$

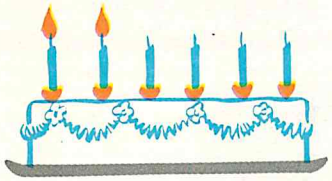
2.



6 candles
3 lights out
___ lights left

$$\begin{array}{r} 6 \\ -3 \\ \hline \end{array}$$

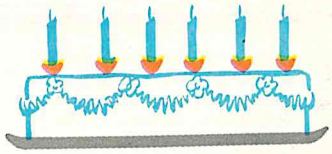
3.



6 candles
4 lights out
___ lights left

$$\begin{array}{r} 6 \\ -4 \\ \hline \end{array}$$

4.



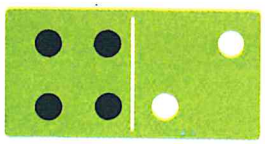
6 candles
6 lights out
___ lights left

$$\begin{array}{r} 6 \\ -6 \\ \hline \end{array}$$

5.

6 take away 2 is ___.
6 take away 3 is ___.
6 take away 4 is ___.
6 take away 6 is ___.

1.



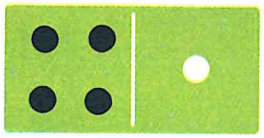
4 and 2 are ____.

2 and 4 are ____.

6 take away 4 is ____.

6 take away 2 is ____.

2.



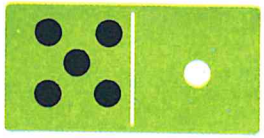
4 and 1 are ____.

1 and 4 are ____.

5 take away 4 is ____.

5 take away 1 is ____.

3.



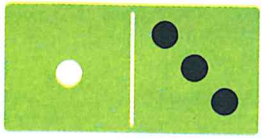
5 and 1 are ____.

1 and 5 are ____.

6 take away 5 is ____.

6 take away 1 is ____.

4.



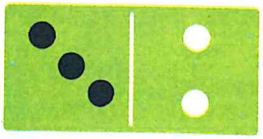
1 and 3 are ____.

3 and 1 are ____.

4 take away 1 is ____.

4 take away 3 is ____.

5.



3 and 2 are ____.

2 and 3 are ____.

5 take away 3 is ____.

5 take away 2 is ____.

6.

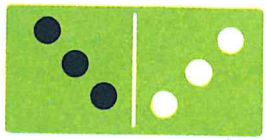
1 and 2 are ____.

2 and 1 are ____.

3 take away 1 is ____.

3 take away 2 is ____.

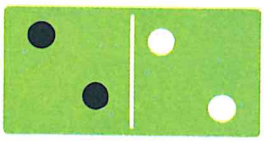
7.



3 and 3 are ____.

6 take away 3 is ____.

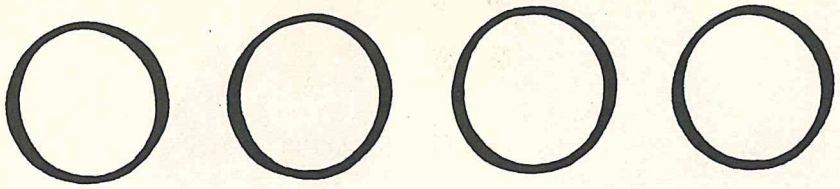
8.



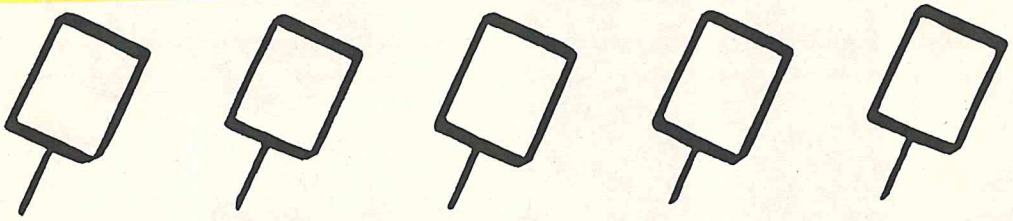
2 and 2 are ____.

4 take away 2 is ____.

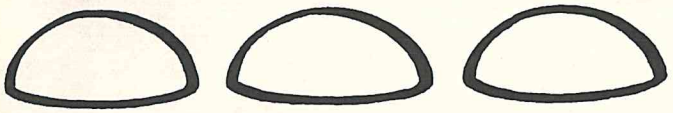
Draw more to make 6.



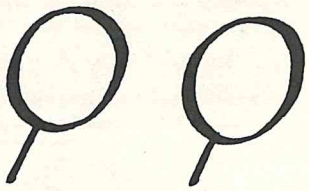
4 and ____ are 6.



5 and ____ are 6.



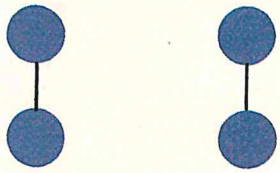
3 and ____ are 6.



2 and ____ are 6.

1 and ____ are 6.

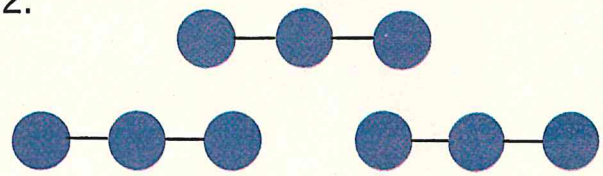
1.



How many in all? ____

How many 2's? ____

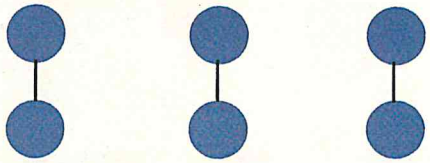
2.



How many in all? ____

How many 3's? ____

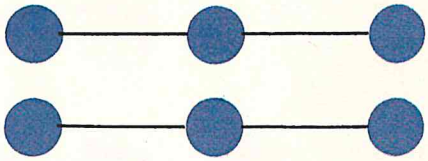
3.



How many in all? ____

How many 2's? ____

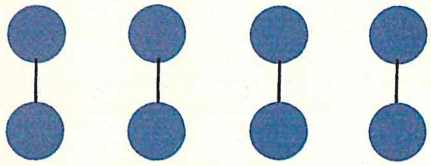
4.



How many in all? ____

How many 3's? ____

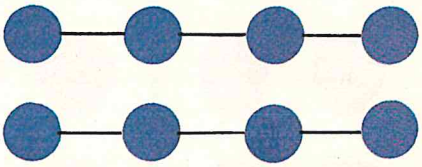
5.



How many in all? ____

How many 2's? ____

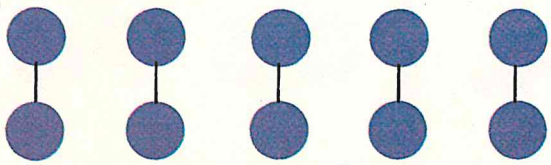
6.



How many in all? ____

How many 4's? ____

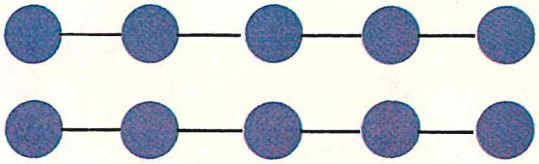
7.



How many in all? ____

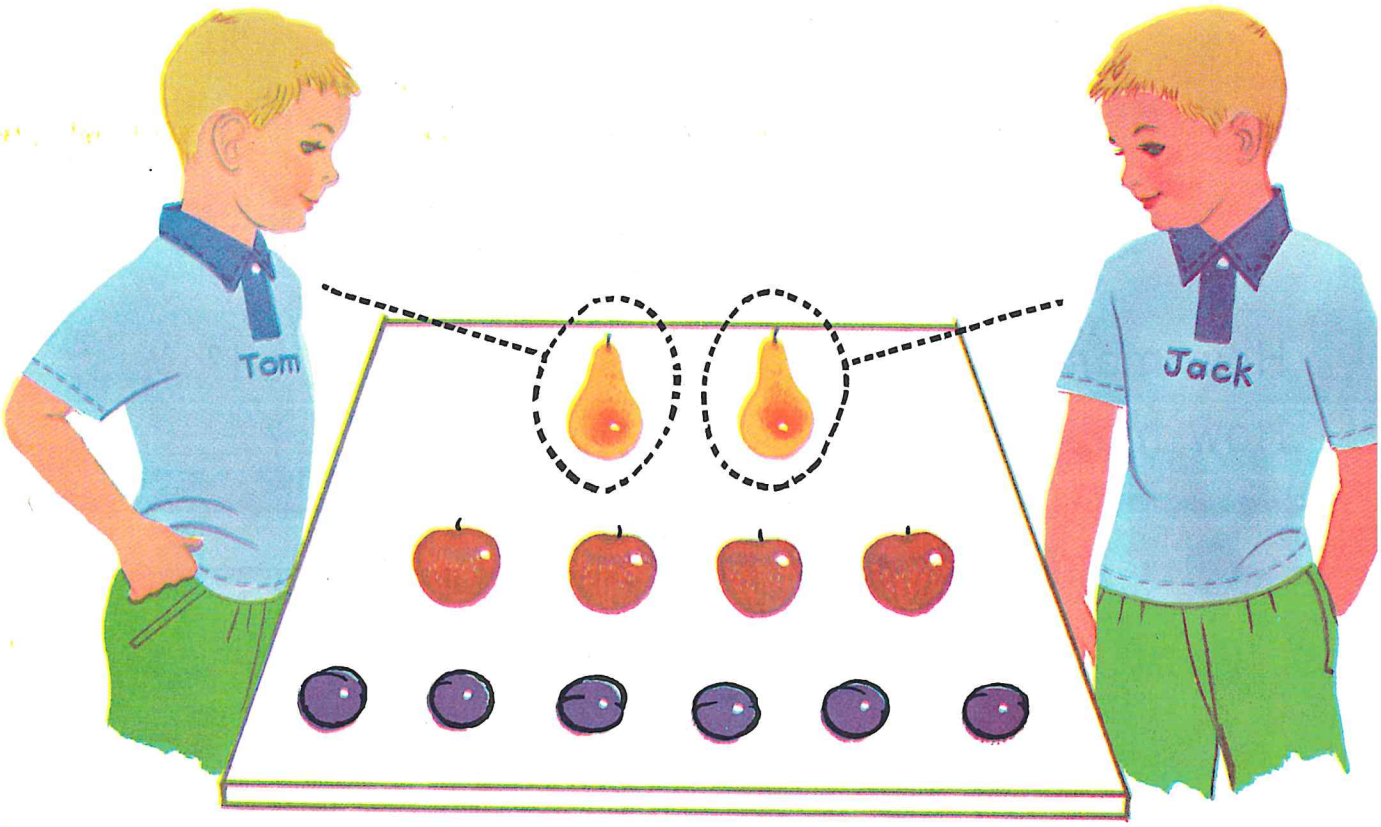
How many 2's? ____

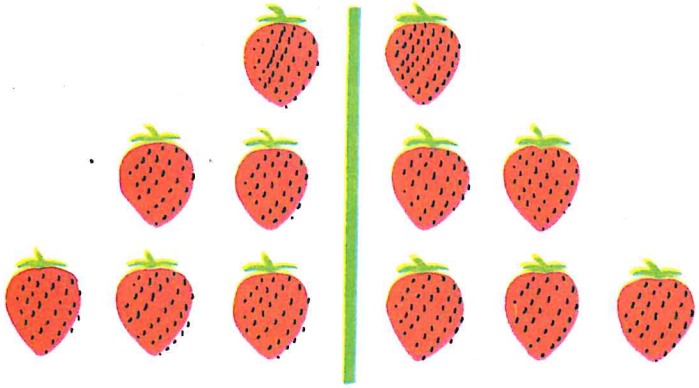
8.



How many in all? ____

How many 5's? ____

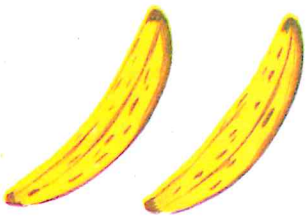




Half of 2 is ____.

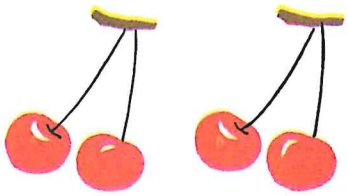
Half of 4 is ____.

Half of 6 is ____.



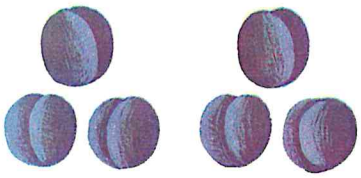
1 and 1 are ____.

2 ones are ____.



2 and 2 are ____.

2 twos are ____.



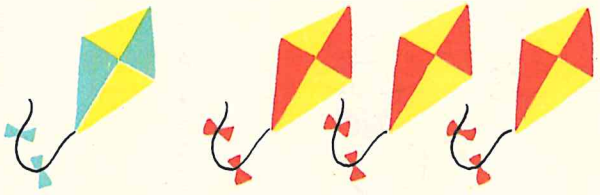
3 and 3 are ____.

2 threes are ____.

Number stories about 3

$$\begin{array}{r} 2 \\ +1 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ +2 \\ \hline \end{array} \qquad \begin{array}{r} 3 \\ -2 \\ \hline \end{array} \qquad \begin{array}{r} 3 \\ -1 \\ \hline \end{array}$$

Number stories about 4



$$\begin{array}{r} 1 \\ +3 \\ \hline \end{array} \qquad \begin{array}{r} 3 \\ +1 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ -1 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ +2 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ -2 \\ \hline \end{array}$$

Number stories about 5

$$\begin{array}{r} 4 \\ +1 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ +4 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ -4 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ -1 \\ \hline \end{array}$$

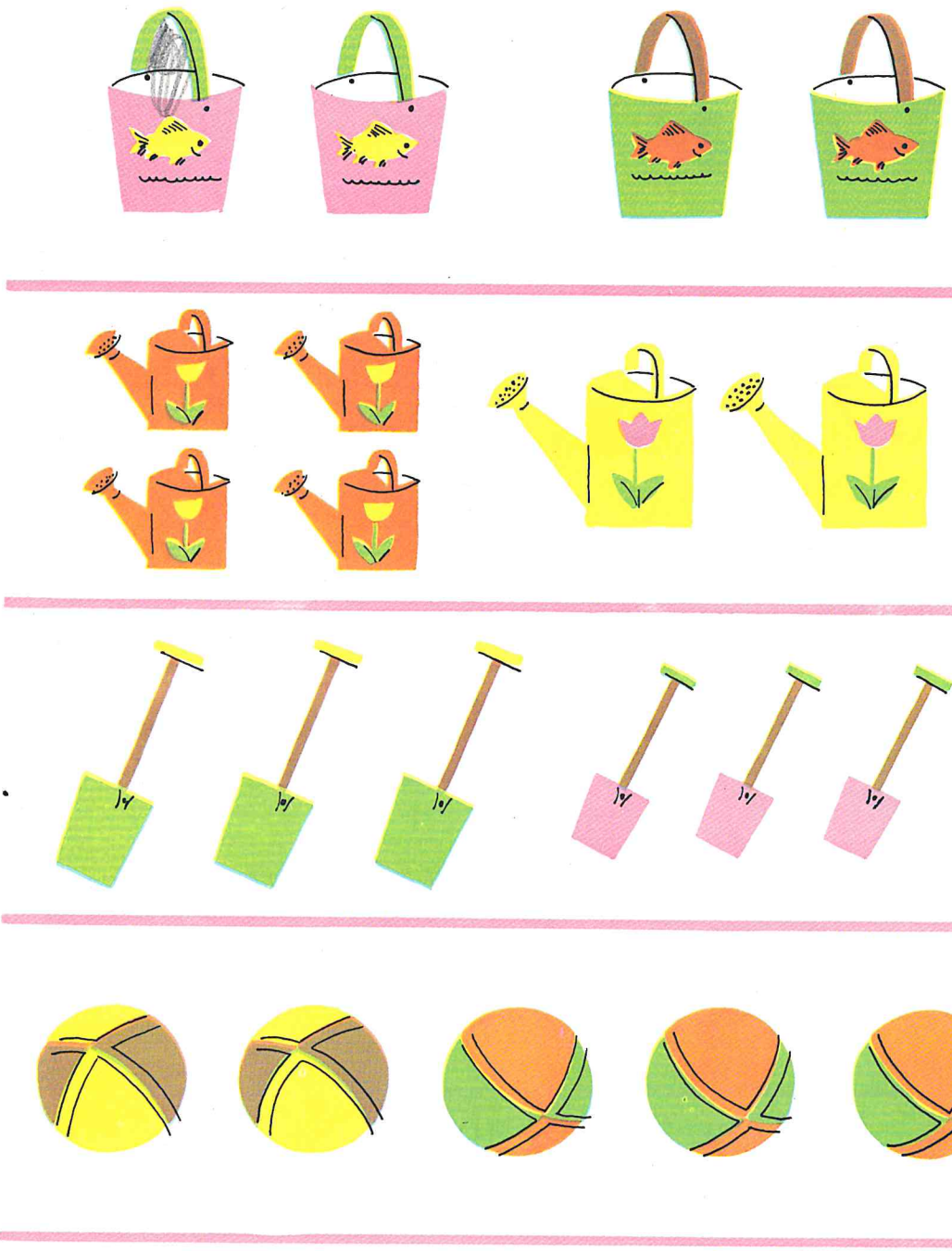
$$\begin{array}{r} 3 \\ +2 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ +3 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ -3 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ -2 \\ \hline \end{array}$$

Number stories about 6

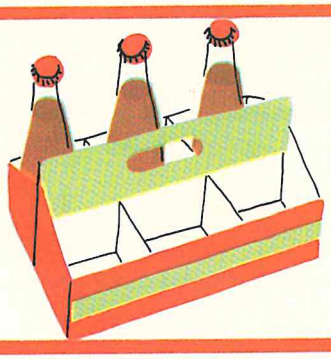
$$\begin{array}{r} 5 \\ +1 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ +5 \\ \hline \end{array} \qquad \begin{array}{r} 6 \\ -5 \\ \hline \end{array} \qquad \begin{array}{r} 6 \\ -1 \\ \hline \end{array}$$

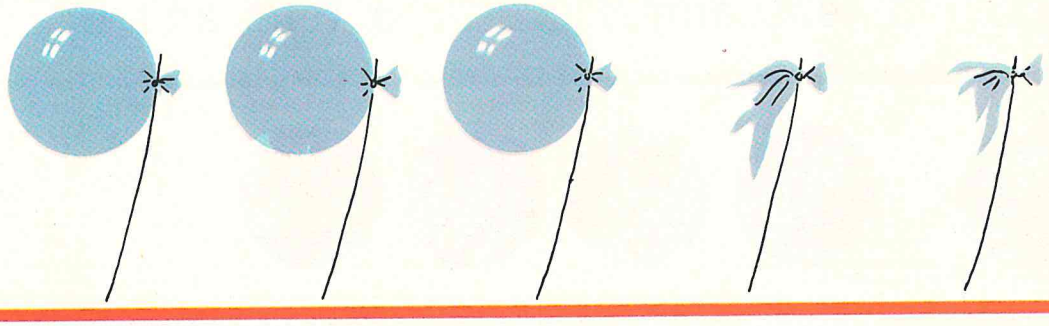
$$\begin{array}{r} 2 \\ +4 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ +2 \\ \hline \end{array} \qquad \begin{array}{r} 6 \\ -4 \\ \hline \end{array} \qquad \begin{array}{r} 6 \\ -2 \\ \hline \end{array}$$

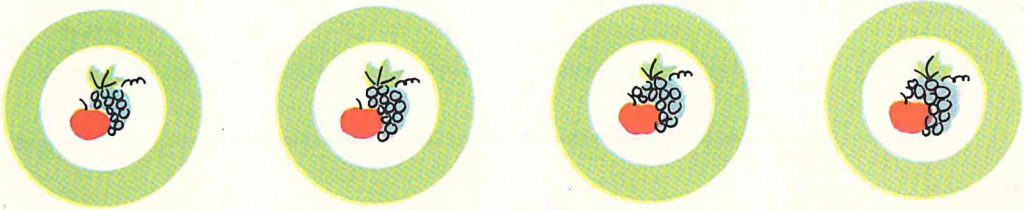
$$\begin{array}{r} 3 \\ +3 \\ \hline \end{array} \qquad \begin{array}{r} 6 \\ -3 \\ \hline \end{array}$$

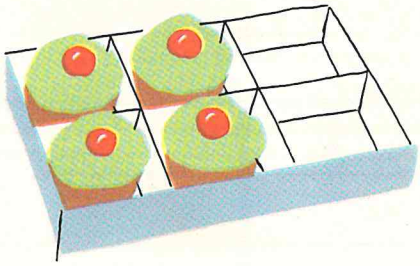


4 + 2	1 + 3	4 + 1	2 + 2	1 + 5	3 + 3	2 + 1	3 + 2
1 + 1	2 + 3	5 + 1	2 + 4	3 + 1	1 + 2	1 + 4	2 + 3









6 − 4	4 − 1	5 − 4	4 − 2	6 − 1	6 − 3	3 − 2	5 − 3
2 − 1	5 − 2	6 − 5	6 − 2	4 − 3	3 − 1	5 − 1	5 − 2

1.

10 20 ___ ___ ___ 60 ___ ___ ___ 100

2.

11 12 ___ 14 ___ ___ 17 ___ 19 ___

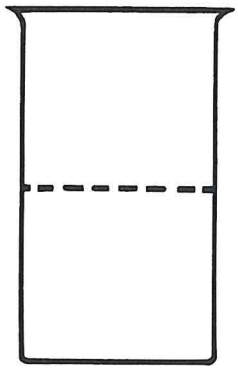
3.

5 tens, ___ 5 tens and 3, ___ 5 tens and 6, ___

4.

42¢ 24¢

5.



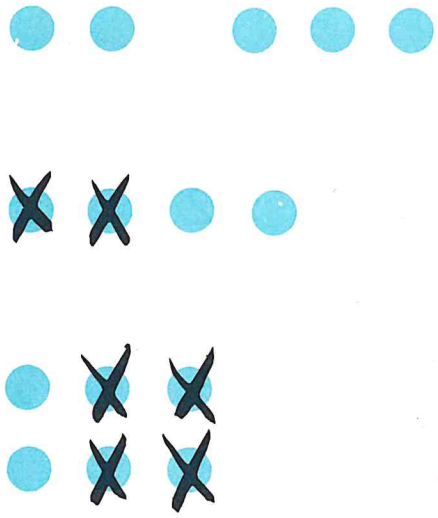
6.

inches

7.

___ o'clock

8.



$\begin{array}{r} 4 \\ -\,2 \\ \hline 2 \end{array}$

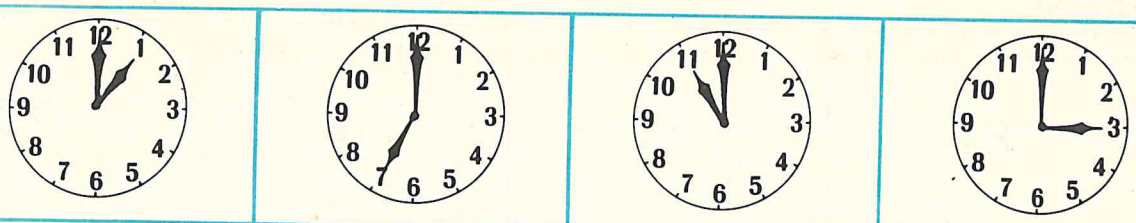
$\begin{array}{r} 2 \\ +\,3 \\ \hline 5 \end{array}$

$\begin{array}{r} 6 \\ -\,4 \\ \hline 2 \end{array}$

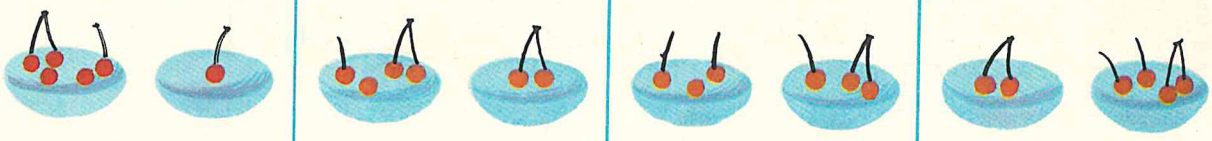
9.

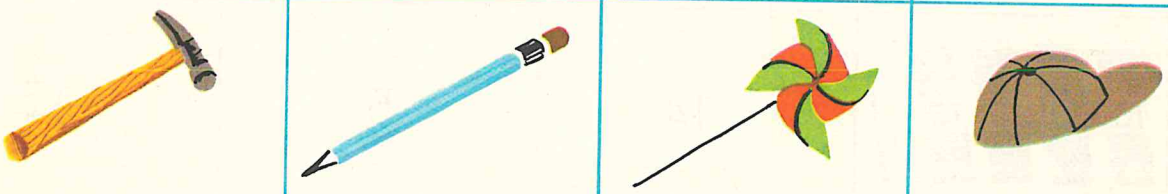
three	1	2	3
one	1	3	4
two	3	4	2
five	4	5	6
ten	5	6	10
four	3	4	5

Test 5

1. 

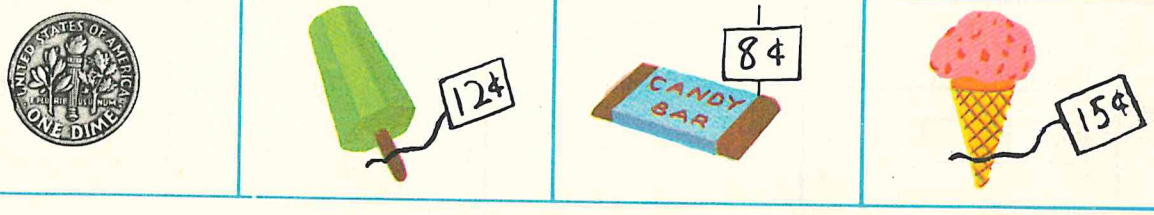
2. 4 inches | 6 inches | 2 inches | 10 inches

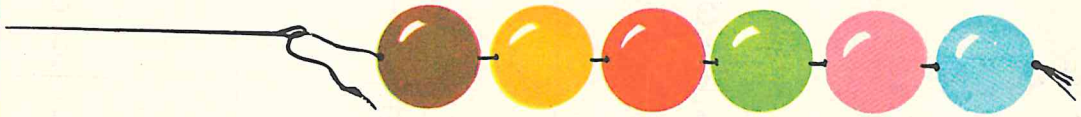
3. 

4. 

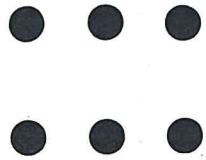
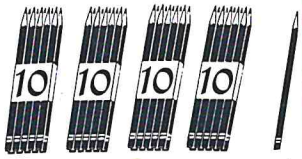
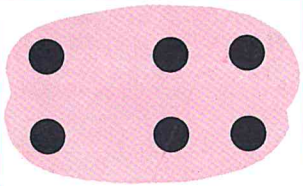
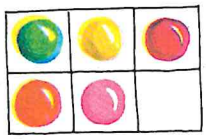
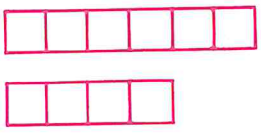
5.

6.

7. 

8. 

Test 6

1.	81	68	18	79
2.		six	five	four
3.	59 ___ 61	60	58	62
4.		14	5	41
5.		$\begin{array}{r} 2 \\ +2 \\ \hline 4 \end{array}$	$\begin{array}{r} 1 \\ +5 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ +4 \\ \hline 6 \end{array}$
6.		$\begin{array}{r} 6 \\ -1 \\ \hline 5 \end{array}$	$\begin{array}{r} 6 \\ -3 \\ \hline 3 \end{array}$	$\begin{array}{r} 6 \\ -2 \\ \hline 4 \end{array}$
7.		2	4	6
8.	1 and 4 are 5	$\begin{array}{r} 5 \\ -1 \\ \hline 4 \end{array}$	$\begin{array}{r} 1 \\ +4 \\ \hline 5 \end{array}$	$\begin{array}{r} 5 \\ -4 \\ \hline 1 \end{array}$

To the Teacher

Essential to the use of this Grade 1 text-workbook, *One by One*, of the GROWTH IN ARITHMETIC series is its accompanying Teacher's Edition. The Teacher's Edition gives the objectives and the detailed directions for teaching each page of the pupil's book together with a reproduction of the page in color. It includes many specific suggestions for employing a variety of learning activities and materials of proven value in carrying out a well rounded arithmetic program in the first grade. Anyone examining the book with a view to using it with children should refer to the Teacher's Edition.

This book, *One by One*, used in accordance with the teacher's guide, provides a continuity of activities and experiences necessary for learning the basic number concepts. The learning proceeds from things to pictures, thence to number symbols. The work is planned so that the teacher may effectively utilize children's everyday number needs as materials of instruction in a developmental program of arithmetic.

Meaningful teaching of primary arithmetic employs a variety of sensory experiences: seeing, touching, talking, and hearing are all essential. The pages of this text-workbook are intended to summarize and point up for the child the previous discoveries he has made by taking apart and putting together groups of objects, by comparing the sizes of groups, and through other experiences with concrete materials. The class should use each page as a basis for a discussion under the teacher's guidance before the children finally record the answers in their books. Thus do number concepts grow and become meaningful through repeated practice with objects and pictures and symbols.

The following is an outline of the arithmetical content of Grade 1 of GROWTH IN ARITHMETIC. A complete analysis by pages will be found in the Teacher's Edition.

Counting, rote and rational

Understanding, reading, and writing numbers to 10; to 100

Composition, comparison, and relationship of numbers through 6; in Teacher's Edition, *optional* for faster learners, through 10

Numbering objects serially

Concept of half and of doubles through 6

Ordinals through sixth

Needed vocabularies, both spoken and written

Coins (cent, nickel, dime)

Measuring length in inches

Measuring liquids in pints and quarts

Time (clock and calendar)

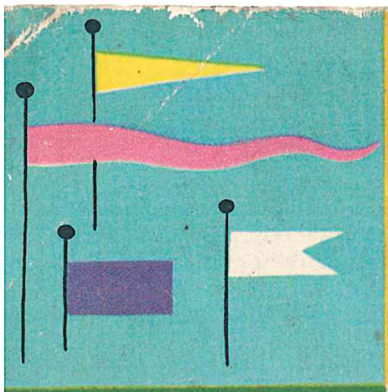
Addition and subtraction, sums and minuends through 6; in Teacher's Edition, *optional* for faster learners to explore, through 10

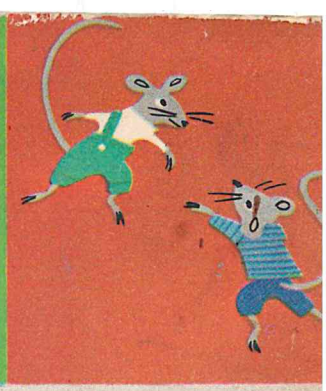
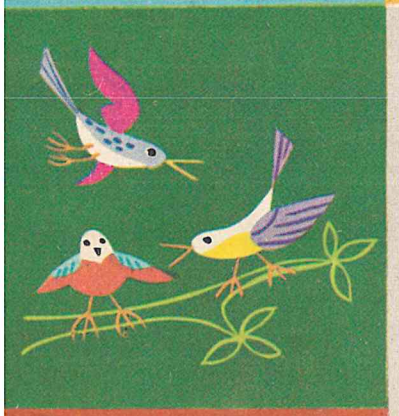
Problems solved with the aid of concrete materials and pictures

Estimating, generalizing, and reasoning

The reading load in this book is kept at a minimum. All the non-quantitative words are those the pupil is meeting in his reading textbooks and other classroom reading experiences. The strictly arithmetical words such as count, number, many, etc., are given meaning during the readiness and discussion periods, when the pupil hears, understands, speaks, and finally learns to recognize the written form. Thus the pupil is fully prepared to read easily the limited vocabulary used in this book.

For pupils who may not be fully prepared to undertake the usual first-grade work as presented in *One by One*, there is available, in the GROWTH IN ARITHMETIC series, a special non-reading number readiness book entitled *Let's Count*.

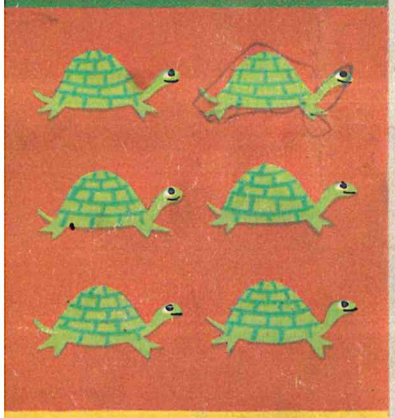


GROWTH IN ARITHMETIC: Revised Edition

One by One

by **John R. Clark, Charlotte W. Junge** and **Caroline Hatton Clark**



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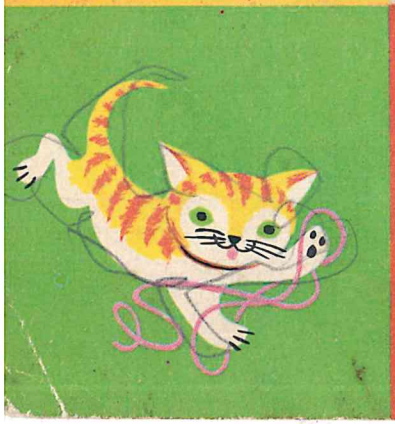
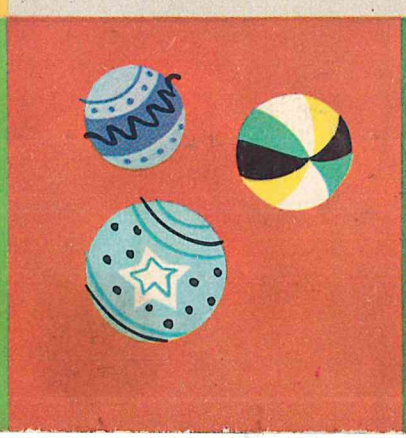
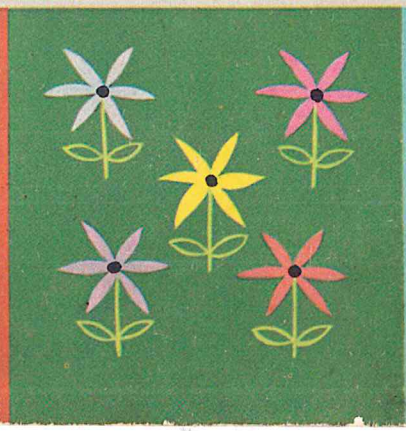
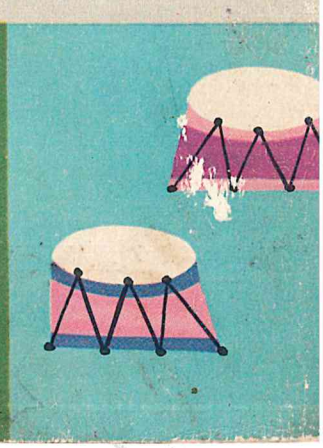
World Book Company

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